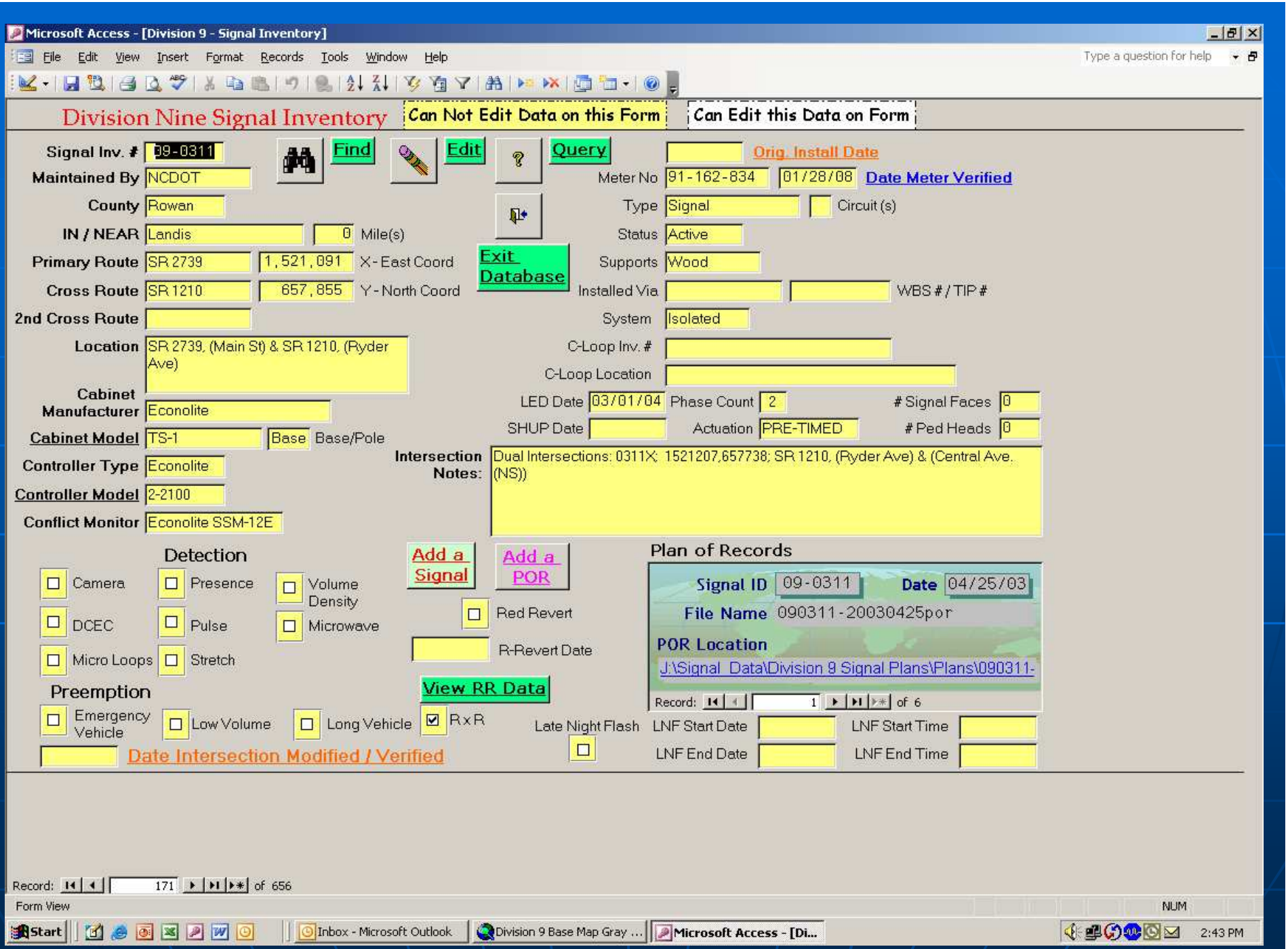
Arcview/GPS Applications in Traffic Operations

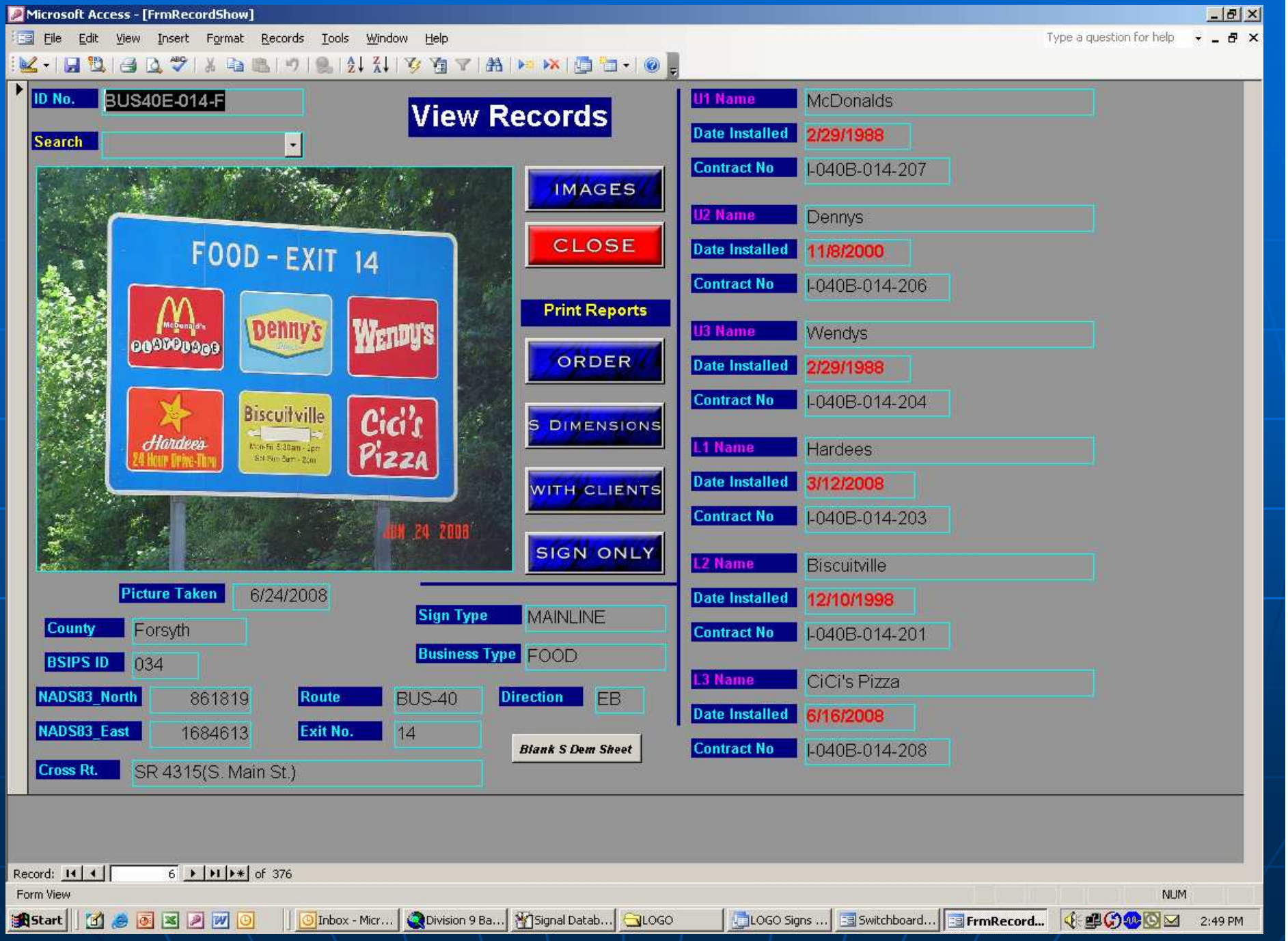
Division Nine Traffic Operations Perspective

J.P. Couch, PE

Existing Access Databases

- Signal Location Inventory
- LOGO/TODS
- Overhead Sign Structures


Microsoft Access - [Division 9 - Signal Inventory]
File Edit View Insert Format Records Tools Window Help
Type a question for help
Division Nine Signal Inventory
Can Not Edit Data on this Form
Can Edit this Data on Form
Signal Inv. # 09-0311
Find
Edit
Query
Maintained By NCDOT
County Rowan
IN / NEAR Landis 0 Mile(s)
Primary Route SR 2739 1,521,091 X-East Coord
Cross Route SR 1210 657,855 Y-North Coord
2nd Cross Route
Location SR 2739, (Main St) & SR 1210, (Ryder Ave)
Cabinet Manufacturer Econolite
Cabinet Model TS-1 Base Base/Pole
Controller Type Econolite
Controller Model 2-2100
Conflict Monitor Econolite SSM-12E
Exit Database
Orig. Install Date
Meter No 91-162-834 01/28/08 Date Meter Verified
Type Signal Circuit (s)
Status Active
Supports Wood
Installed Via WBS # / TIP #
System Isolated
C-Loop Inv. #
C-Loop Location
LED Date 03/01/04 Phase Count 2 # Signal Faces 0
SHUP Date Actuation PRE-TIMED # Ped Heads 0
Intersection Notes: Dual Intersections: 0311X; 1521207,657738; SR 1210, (Ryder Ave) & (Central Ave, (NS))
Detection
Camera Presence Volume Density
DCEC Pulse Microwave
Micro Loops Stretch
Preemption
Emergency Vehicle Low Volume Long Vehicle R x R
Date Intersection Modified / Verified
Add a Signal
Add a POR
Red Revert
R-Revert Date
View RR Data
Plan of Records
Signal ID 09-0311 Date 04/25/03
File Name 090311-20030425por
POR Location
J:\Signal_Data\Division 9 Signal Plans\Plans\090311-
Record: 1 of 6
Late Night Flash
LNF Start Date
LNF Start Time
LNF End Date
LNF End Time
Record: 171 of 656
Form View
NUM
Start
Inbox - Microsoft Outlook
Division 9 Base Map Gray ...
Microsoft Access - [Di...
2:43 PM


Microsoft Access - [FrmRecordShow]
File Edit View Insert Format Records Tools Window Help
Type a question for help
ID No. BUS40E-014-F
View Records
Search
IMAGES
CLOSE
Print Reports
ORDER
S DIMENSIONS
WITH CLIENTS
SIGN ONLY
FOOD - EXIT 14
Denny's
Wendy's
Biscuitville
Hardees
CiCi's Pizza
JUN 24 2008
Picture Taken 6/24/2008
County Forsyth
BSIPS ID 034
NADS83_North 861819
NADS83_East 1684613
Route BUS-40
Exit No. 14
Direction EB
Cross Rt. SR 4315(S. Main St.)
Sign Type MAINLINE
Business Type FOOD
Blank S Dem Sheet
U1 Name McDonalds
Date Installed 2/29/1988
Contract No I-040B-014-207
U2 Name Dennys
Date Installed 11/8/2000
Contract No I-040B-014-206
U3 Name Wendys
Date Installed 2/29/1988
Contract No I-040B-014-204
L1 Name Hardees
Date Installed 3/12/2008
Contract No I-040B-014-203
L2 Name Biscuitville
Date Installed 12/10/1998
Contract No I-040B-014-201
L3 Name CiCi's Pizza
Date Installed 6/16/2008
Contract No I-040B-014-208
Record: 6 of 376
Form View
NUM
Start
Inbox - Micr...
Division 9 Ba...
Signal Datab...
LOGO
LOGO Signs ...
Switchboard...
FrmRecord...
2:49 PM

Microsoft Access - [FrmSigns]

File Edit View Insert Format Records Tools Window Help

Type a question for help

Record No. 95 Search:

Location Comment 95018 SS

NCDOT Sign No. 95018

# of Light Fixtures 5

Fixture Type MV 250W

View Overhead Sign Records

Local or Remote Meter Serial No.

Meter No. 58202701

X Coord 1636141

Y Coord 844026

Is this a Meter Case? No "Same" = Sign and Meter combined

Meter in Case? No

Image 1 J:\Pics\OverheadSign\95018.jpg

Image 2

County Forsyth

Location I 40 WB @ Bridge over US 52

No Image Available

Sign Location only. No Meter with this record.

Select field then click "find record"

Find Record

Close Form

Notes:

Record: 37 of 220

Form View NUM

Start | Inbox - Micr... | Division 9 Ba... | LOGO Datab... | Sign Structu... | SignStructur... | Switchboard... | FrmSigns | 2:52 PM

Microsoft Access - [Division 9 - Signal Inventory]

Microsoft Access - [FrmRecordShow]

File Edit View Insert Format Records Tools Window Help

Type a question for help

Microsoft Access - [FrmSigns]

File Edit View Insert Format Records Tools Window Help

Type a question for help

Record No.	95	Search:	
Location Comment	95018 SS	NCDOT Sign No.	95018
# of Light Fixtures	5		
Fixture Type	MV 250W		
Is this a Meter Case?	No	"Same" = Sign and Meter combined	
Meter in Case?	No		
Image 1	J:\Pics\OverheadSign\95018.jpg		
Image 2			

View Overhead Sign Records

Local or Remote Meter Serial No.

Meter No.	58202701
X Coord	1636141
Y Coord	844026
County	Forsyth
Location	I 40 WB @ Bridge over US 52

No Image Available

Sign Location only. No Meter with this record.

Select field then click "find record"

Find Record

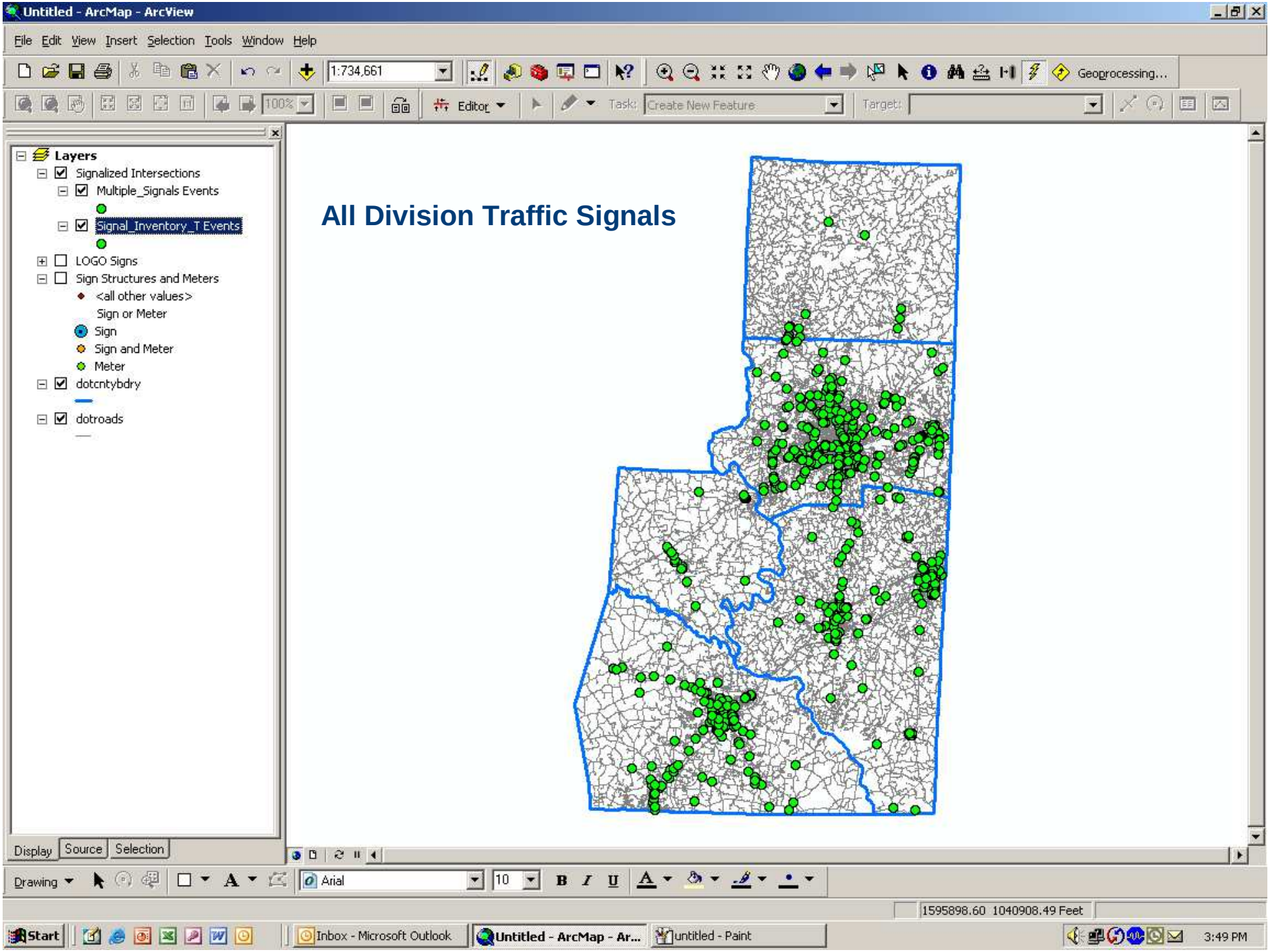
Close Form

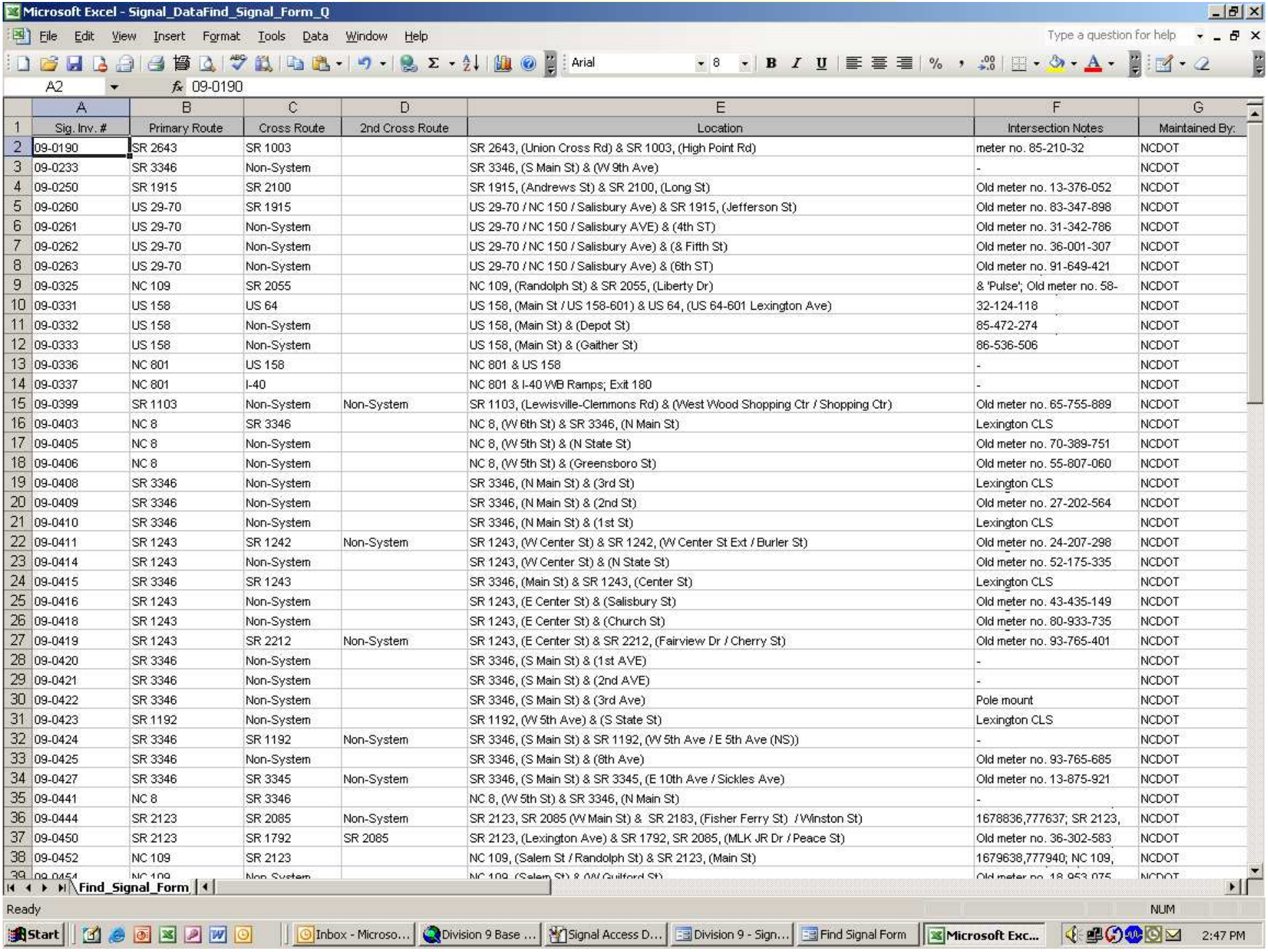
Notes:

Record: 37 of 220

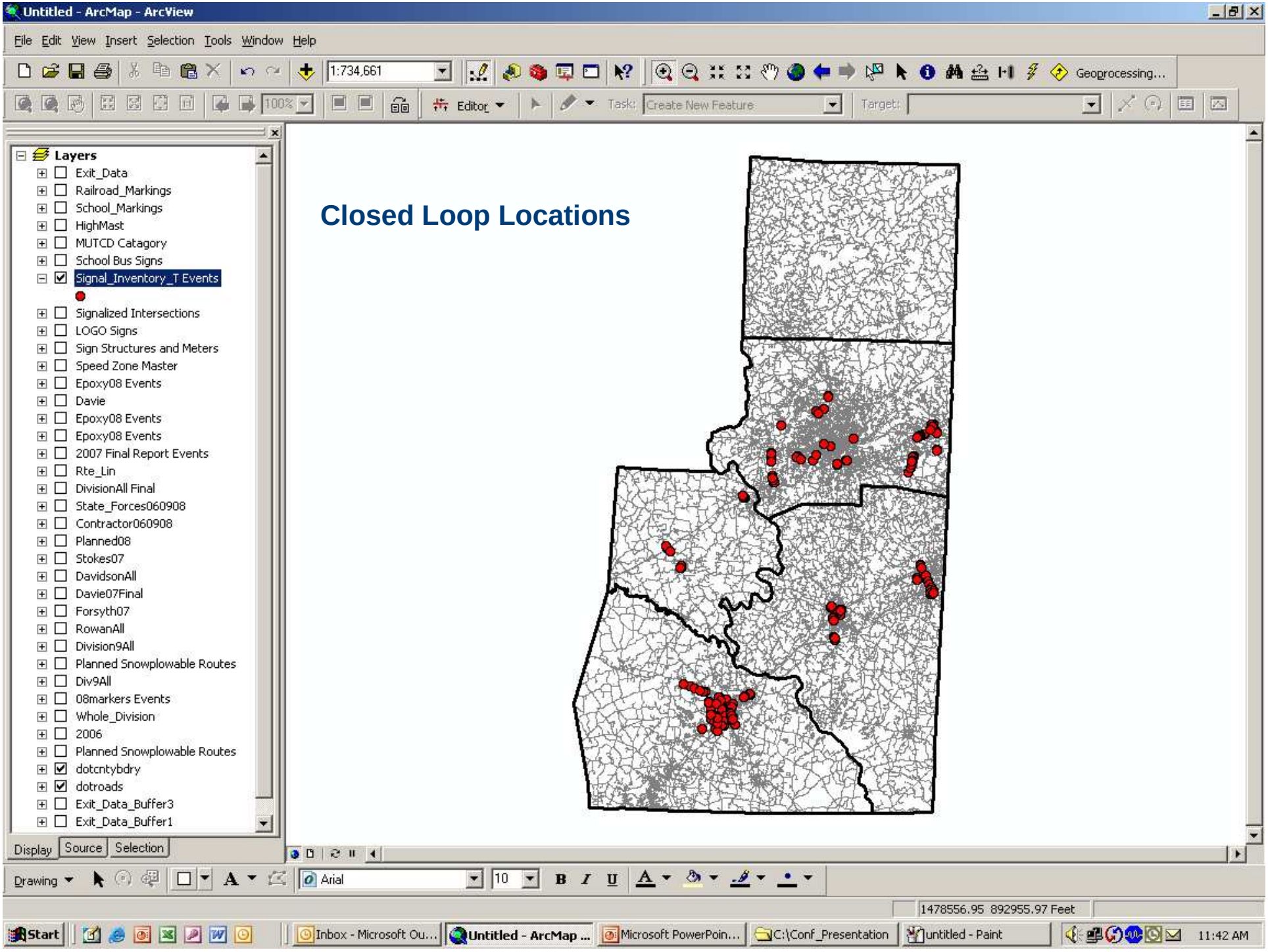
Form View

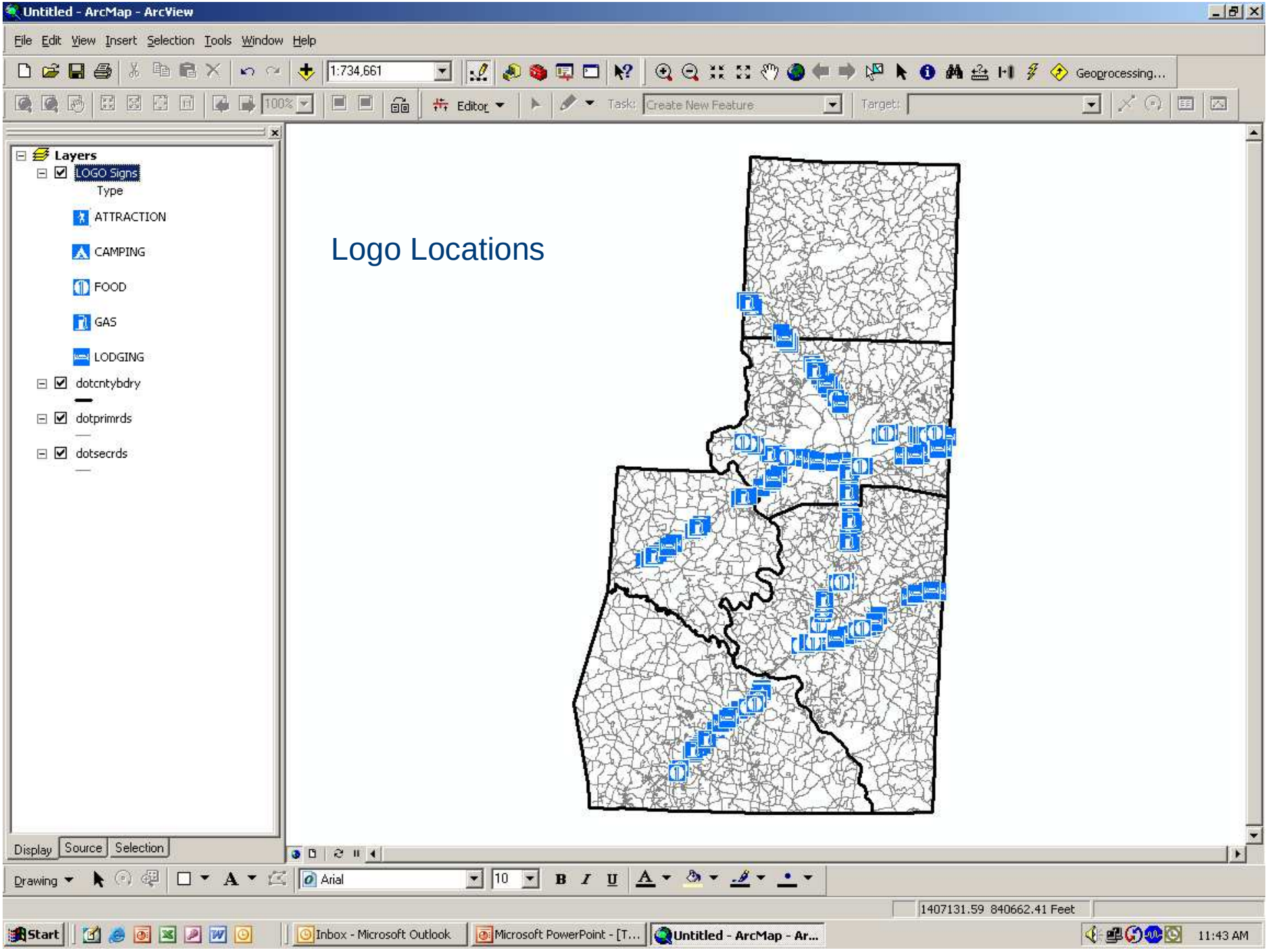
NUM

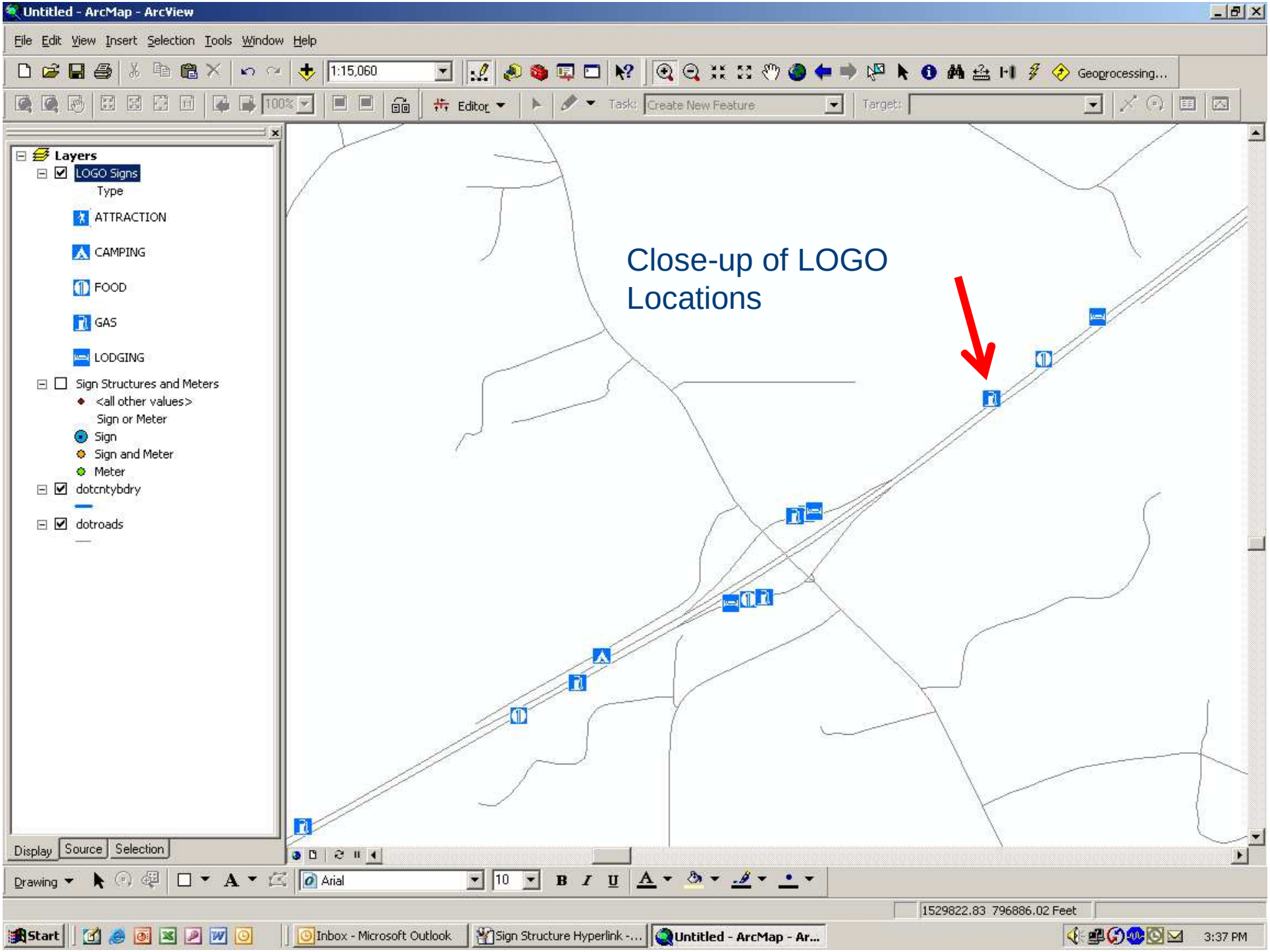

Untitled - ArcMap - ArcView
File Edit View Insert Selection Tools Window Help
1:734,661
Geoprocessing...
Editor
Task: Create New Feature
Target:
Layers
Signalized Intersections
Multiple_Signals Events
Signal_Inventory_T Events
LOGO Signs
Sign Structures and Meters
<all other values>
Sign or Meter
Sign
Sign and Meter
Meter
dotcntybdry
dotroads
Display Source Selection
All Division Traffic Signals
Drawing
Arial
10
1595898.60 1040908.49 Feet
Start
Inbox - Microsoft Outlook
Untitled - ArcMap - Ar...
untitled - Paint
3:49 PM



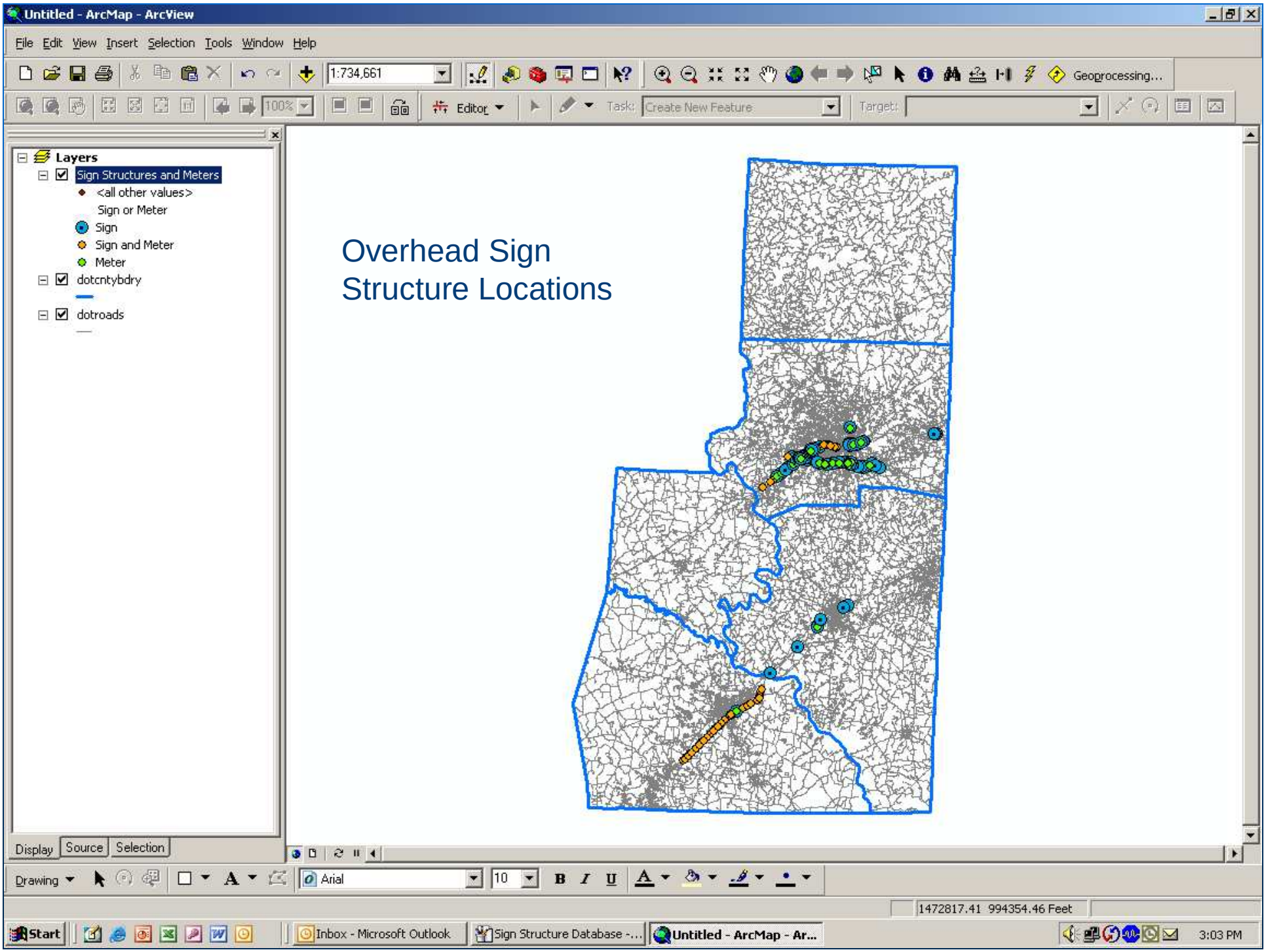
	A	B	C	D	E	F	G
1	Sig. Inv. #	Primary Route	Cross Route	2nd Cross Route	Location	Intersection Notes	Maintained By:
2	09-0190	SR 2643	SR 1003		SR 2643, (Union Cross Rd) & SR 1003, (High Point Rd)	meter no. 85-210-32	NCDOT
3	09-0233	SR 3346	Non-System		SR 3346, (S Main St) & (W 9th Ave)	-	NCDOT
4	09-0250	SR 1915	SR 2100		SR 1915, (Andrews St) & SR 2100, (Long St)	Old meter no. 13-376-052	NCDOT
5	09-0260	US 29-70	SR 1915		US 29-70 / NC 150 / Salisbury Ave) & SR 1915, (Jefferson St)	Old meter no. 83-347-898	NCDOT
6	09-0261	US 29-70	Non-System		US 29-70 / NC 150 / Salisbury AVE) & (4th ST)	Old meter no. 31-342-786	NCDOT
7	09-0262	US 29-70	Non-System		US 29-70 / NC 150 / Salisbury Ave) & (& Fifth St)	Old meter no. 36-001-307	NCDOT
8	09-0263	US 29-70	Non-System		US 29-70 / NC 150 / Salisbury Ave) & (6th ST)	Old meter no. 91-649-421	NCDOT
9	09-0325	NC 109	SR 2055		NC 109, (Randolph St) & SR 2055, (Liberty Dr)	& 'Pulse'; Old meter no. 58-	NCDOT
10	09-0331	US 158	US 64		US 158, (Main St / US 158-601) & US 64, (US 64-601 Lexington Ave)	32-124-118	NCDOT
11	09-0332	US 158	Non-System		US 158, (Main St) & (Depot St)	85-472-274	NCDOT
12	09-0333	US 158	Non-System		US 158, (Main St) & (Gaither St)	86-536-506	NCDOT
13	09-0336	NC 801	US 158		NC 801 & US 158	-	NCDOT
14	09-0337	NC 801	I-40		NC 801 & I-40 WB Ramps; Exit 180	-	NCDOT
15	09-0399	SR 1103	Non-System	Non-System	SR 1103, (Lewisville-Clemmons Rd) & (West Wood Shopping Ctr / Shopping Ctr)	Old meter no. 65-755-889	NCDOT
16	09-0403	NC 8	SR 3346		NC 8, (W 6th St) & SR 3346, (N Main St)	Lexington CLS	NCDOT
17	09-0405	NC 8	Non-System		NC 8, (W 5th St) & (N State St)	Old meter no. 70-389-751	NCDOT
18	09-0406	NC 8	Non-System		NC 8, (W 5th St) & (Greensboro St)	Old meter no. 55-807-060	NCDOT
19	09-0408	SR 3346	Non-System		SR 3346, (N Main St) & (3rd St)	Lexington CLS	NCDOT
20	09-0409	SR 3346	Non-System		SR 3346, (N Main St) & (2nd St)	Old meter no. 27-202-564	NCDOT
21	09-0410	SR 3346	Non-System		SR 3346, (N Main St) & (1st St)	Lexington CLS	NCDOT
22	09-0411	SR 1243	SR 1242	Non-System	SR 1243, (W Center St) & SR 1242, (W Center St Ext / Burler St)	Old meter no. 24-207-298	NCDOT
23	09-0414	SR 1243	Non-System		SR 1243, (W Center St) & (N State St)	Old meter no. 52-175-335	NCDOT
24	09-0415	SR 3346	SR 1243		SR 3346, (Main St) & SR 1243, (Center St)	Lexington CLS	NCDOT
25	09-0416	SR 1243	Non-System		SR 1243, (E Center St) & (Salisbury St)	Old meter no. 43-435-149	NCDOT
26	09-0418	SR 1243	Non-System		SR 1243, (E Center St) & (Church St)	Old meter no. 80-933-735	NCDOT
27	09-0419	SR 1243	SR 2212	Non-System	SR 1243, (E Center St) & SR 2212, (Fairview Dr / Cherry St)	Old meter no. 93-765-401	NCDOT
28	09-0420	SR 3346	Non-System		SR 3346, (S Main St) & (1st AVE)	-	NCDOT
29	09-0421	SR 3346	Non-System		SR 3346, (S Main St) & (2nd AVE)	-	NCDOT
30	09-0422	SR 3346	Non-System		SR 3346, (S Main St) & (3rd Ave)	Pole mount	NCDOT
31	09-0423	SR 1192	Non-System		SR 1192, (W 5th Ave) & (S State St)	Lexington CLS	NCDOT
32	09-0424	SR 3346	SR 1192	Non-System	SR 3346, (S Main St) & SR 1192, (W 5th Ave / E 5th Ave (NS))	-	NCDOT
33	09-0425	SR 3346	Non-System		SR 3346, (S Main St) & (8th Ave)	Old meter no. 93-765-685	NCDOT
34	09-0427	SR 3346	SR 3345	Non-System	SR 3346, (S Main St) & SR 3345, (E 10th Ave / Sickles Ave)	Old meter no. 13-875-921	NCDOT
35	09-0441	NC 8	SR 3346		NC 8, (W 5th St) & SR 3346, (N Main St)	-	NCDOT
36	09-0444	SR 2123	SR 2085	Non-System	SR 2123, SR 2085 (W Main St) & SR 2183, (Fisher Ferry St) / Winston St)	1678836,777637; SR 2123,	NCDOT
37	09-0450	SR 2123	SR 1792	SR 2085	SR 2123, (Lexington Ave) & SR 1792, SR 2085, (MLK JR Dr / Peace St)	Old meter no. 36-302-583	NCDOT
38	09-0452	NC 109	SR 2123		NC 109, (Salem St / Randolph St) & SR 2123, (Main St)	1679638,777940; NC 109,	NCDOT
39	09-0454	NC 109	Non-System		NC 109, (Salem St) & (W Guilford St)	Old meter no. 18-953-075	NCDOT


Untitled - ArcMap - ArcView
File Edit View Insert Selection Tools Window Help
1:734,661
Geoprocessing...
Editor
Task: Create New Feature
Target:
Layers
Exit_Data
Railroad_Markings
School_Markings
HighMast
MUTCD Catagory
School Bus Signs
Signal_Inventory_T Events
Signalized Intersections
LOGO Signs
Sign Structures and Meters
Speed Zone Master
Epoxy08 Events
Davie
Epoxy08 Events
Epoxy08 Events
2007 Final Report Events
Rte_Lin
DivisionAll Final
State_Forces060908
Contractor060908
Planned08
Stokes07
DavidsonAll
Davie07Final
Forsyth07
RowanAll
Division9All
Planned Snowplowable Routes
Div9All
08markers Events
Whole_Division
2006
Planned Snowplowable Routes
dotcntybdry
dotroads
Exit_Data_Buffer3
Exit_Data_Buffer1
Display
Source
Selection
Closed Loop Locations
Drawing
Arial
10
1478556.95 892955.97 Feet
Start
Inbox - Microsoft Ou...
Untitled - ArcMap ...
Microsoft PowerPoin...
C:\Conf_Presentation
untitled - Paint
11:42 AM

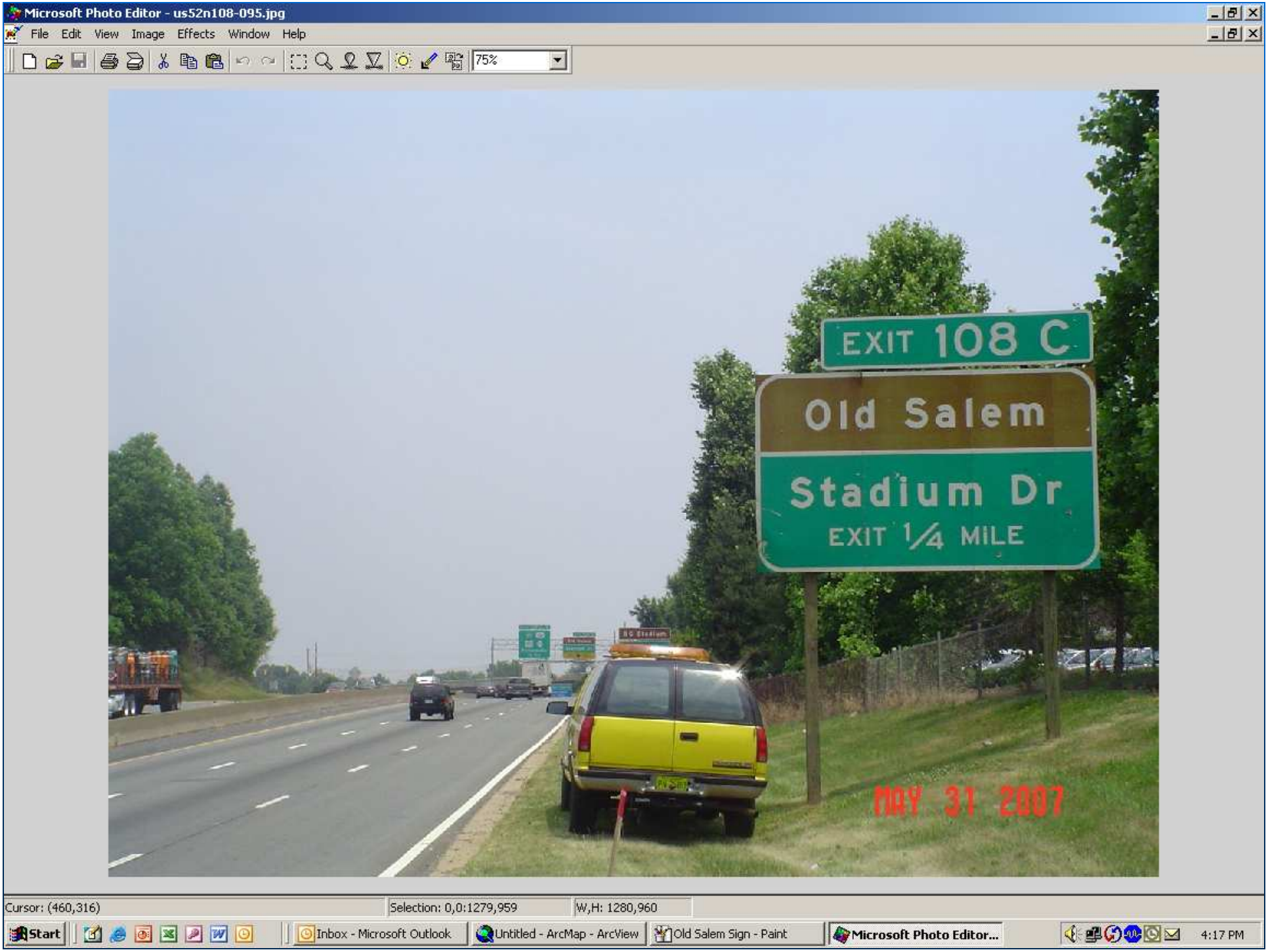

Untitled - ArcMap - ArcView
File Edit View Insert Selection Tools Window Help
1:734,661
Geoprocessing...
Editor
Task: Create New Feature
Target:
Layers
LOGO Signs
Type
ATTRACTION
CAMPING
FOOD
GAS
LODGING
dotcntybdry
dotprimrds
dotsecrds
Logo Locations
Display Source Selection
Drawing
Arial
10
1407131.59 840662.41 Feet
Start
Inbox - Microsoft Outlook
Microsoft PowerPoint - [T...
Untitled - ArcMap - Ar...
11:43 AM


Untitled - ArcMap - ArcView
File Edit View Insert Selection Tools Window Help
1:15,060
Geoprocessing...
Editor
Task: Create New Feature
Target:
Layers
LOGO Signs
Type
ATTRACTION
CAMPING
FOOD
GAS
LODGING
Sign Structures and Meters
<all other values>
Sign or Meter
Sign
Sign and Meter
Meter
dotcntybdry
dotroads
Close-up of LOGO Locations
Display
Source
Selection
Drawing
Arial
10
1529822.83 796886.02 Feet
Start
Inbox - Microsoft Outlook
Sign Structure Hyperlink -...
Untitled - ArcMap - Ar...
3:37 PM

Microsoft Photo Editor - I-040W-170-G.jpg
File Edit View Image Effects Window Help
75%
GAS - EXIT 170
AMBEST
TRAVEL CENTER
24 Hours
BP
DIESEL
EXXON
DIESEL
CITGO
DIESEL
PURE
APR 17 2006
Cursor: (978,404)
Selection: 0,0:1279,959
W,H: 1280,960
Start
Inbox - Microsoft Outlook
Logo Arcmap - Paint
Untitled - ArcMap - ArcView
Microsoft Photo Editor...
3:38 PM


Untitled - ArcMap - ArcView
File Edit View Insert Selection Tools Window Help
1:734,661
Geoprocessing...
Editor
Task: Create New Feature
Target:
Layers
Sign Structures and Meters
<all other values>
Sign or Meter
Sign
Sign and Meter
Meter
dotcntybdry
dotroads
Overhead Sign
Structure Locations
Display
Source
Selection
Drawing
Arial
10
1472817.41 994354.46 Feet
Start
Inbox - Microsoft Outlook
Sign Structure Database -...
Untitled - ArcMap - Ar...
3:03 PM

EXITS 109 A - B
BUSINESS
40
158
421
150
Kernersville
1/4 MILE
EXIT 108 C
Old Salem
Stadium Dr
EXIT
ONLY


Microsoft Photo Editor - us52n108-095.jpg
File Edit View Image Effects Window Help
75%
EXIT 108 C
Old Salem
Stadium Dr
EXIT 1/4 MILE
MAY 31 2007
Cursor: (460,316)
Selection: 0,0:1279,959
W,H: 1280,960
Start
Inbox - Microsoft Outlook
Untitled - ArcMap - ArcView
Old Salem Sign - Paint
Microsoft Photo Editor...
4:17 PM

Visual/MMS / 09 Traffic Serv / JPCOUCH / Analysis Module / Version NC 3.3.4 - [Standard Report Builder]

File Edit Display Rows Database Window Help

Report Setup | Report Design | Summary

Division Nine Paint Operations By Function_REO

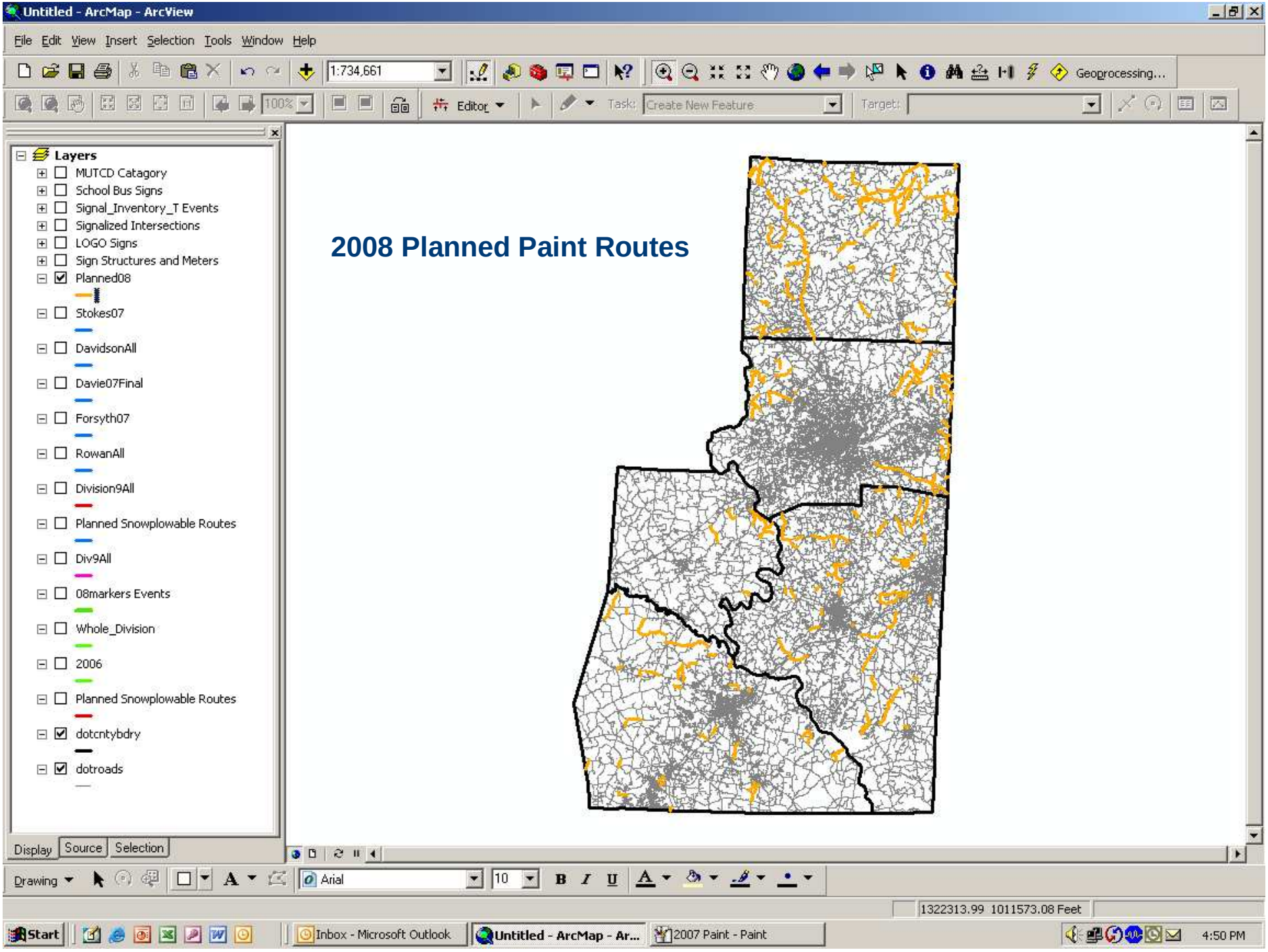
TSR-005 Report

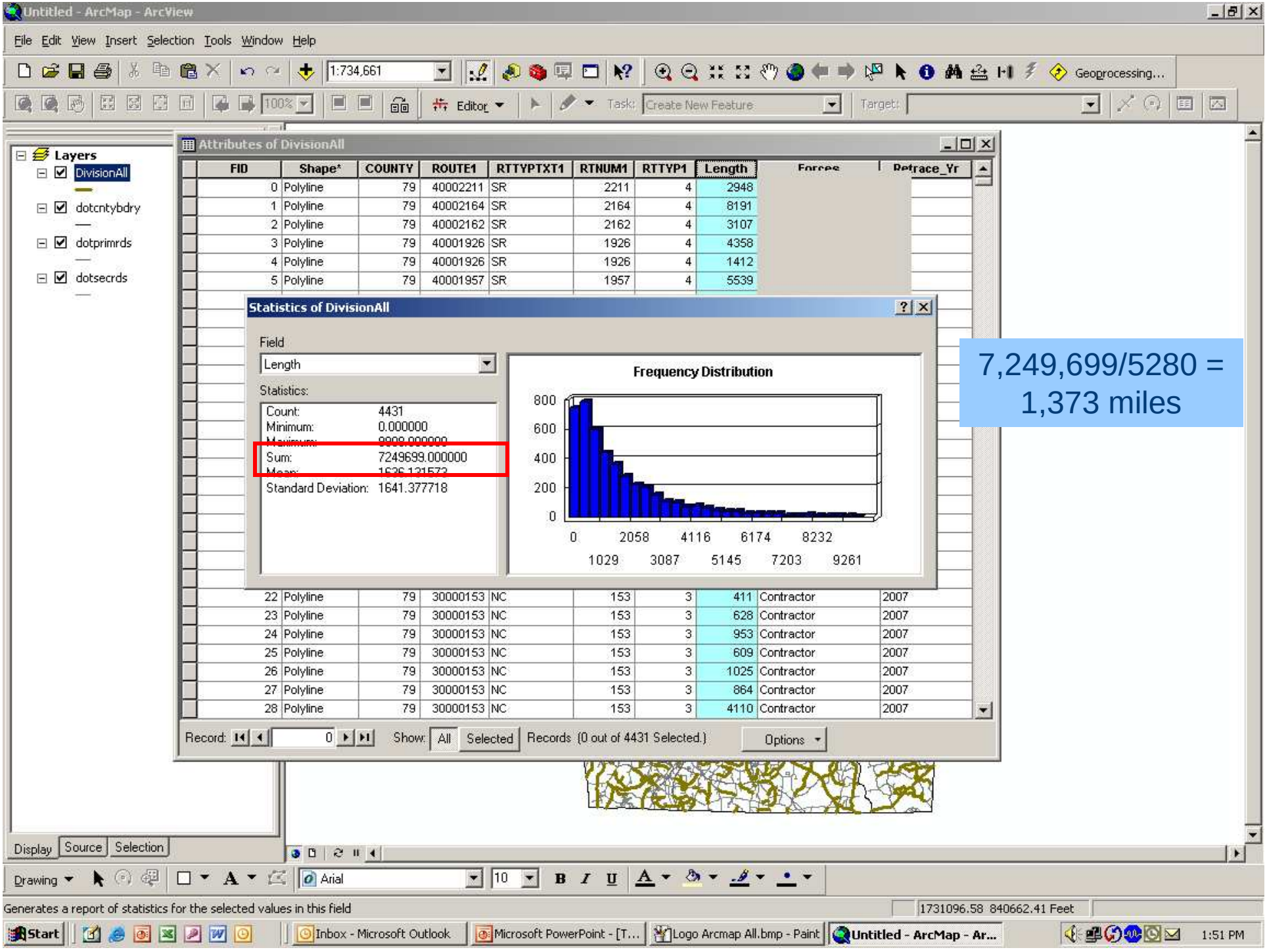
Page 1 of 8
8/14/2008

Work Function	Quantity	Completed on	Comments	Route	Status	Task	GIS Route	Section	From	To
ıg Line Painted Pavement Markir	11,369.70	4/2/2008	1	SR1135	Completed	458984	08540001135	085 SR1135 0.00-0.56 *	0	0.56
	30,583.60	4/2/2008	1	SR1155	Completed	453773	08540001155	085 SR1155 0.00-1.84 *	0	0.4
	46,238.40	4/2/2008	1	SR1160	Completed	453772	08540001160	085 SR1160 0.00-2.26 *	0	2.26
	21,155.70	4/2/2008	1	SR1163	Completed	453778	08540001163	085 SR1163 0.00-1.00 *	0	1
	61,451.00	4/2/2008	1	SR1166	Completed	453779	08540001166	085 SR1166 0.00-5.89 *	2.4	5.89
	41,337.50	4/2/2008	1	SR1173	Completed	453776	08540001173	085 SR1173 0.00-2.30 *	0	2.3
	42,684.70	4/2/2008	1	SR1191	Completed	455725	08540001191	085 SR1191 0.00-2.01 *	0	2.01
	51,292.70	4/2/2008	1	SR1195	Completed	455724	08540001195	085 SR1195 0.00-2.45 *	0	2.45
	29,358.30	4/2/2008	1	SR1224	Completed	453777	08540001224	085 SR1224 0.00-1.41 *	0	1.41
	30,099.40	4/2/2008	1	SR1438	Completed	453810	08540001438	085 SR1438 0.00-1.43 *	0	1.43
	96,580.60	4/2/2008	1	SR1497	Completed	453805	08540001497	085 SR1497 0.00-4.64 *	3.4	4.64
	19,264.60	4/2/2008	1	SR1624	Completed	446552	03040001624	030 SR1624 0.00-1.38 *	0	1.38
	90,327.60	4/2/2008	1	SR1656	Completed	446555	03040001656	030 SR1656 0.00-4.56 *	0.5	3.4
	75,114.70	4/2/2008	1	SR1955	Completed	453743	08540001955	085 SR1955 0.00-9.29 *	0	9.29
	25,902.70	4/2/2008	1	SR1978	Completed	453711	08540001978	085 SR1978 0.00-1.24 *	0	1.24
	73,616.30	4/2/2008	1	SR1990	Completed	453733	08540001990	085 SR1990 0.00-3.49 *	0	3.49
	47,205.40	4/2/2008	1	SR1995	Completed	453737	08540001995	085 SR1995 0.00-2.30 *	0	2.3
	15,172.20	4/2/2008	1	SR2021	Completed	455521	03440002021	034 SR2021 0.00-3.41 *	0	3.41
	21,812.80	4/2/2008	1	SR2022	Completed	456677	08540002022	085 SR2022 0.00-1.19 *	0	1.19
	6,859.00	4/2/2008	1	SR2381	Completed	455527	03440002381	034 SR2381 0.00-1.91 *	0	1.91
	37,759.00	4/4/2008	1	SR1169	Completed	453780	08540001169	085 SR1169 0.00-1.06 *	0	1.06
	21,120.00	4/11/2008	1	SR1489	Completed	453747	08540001489	085 SR1489 0.00-0.89 *	0	0.89
	59,865.80	4/11/2008	1	SR1499	Completed	453804	08540001499	085 SR1499 0.00-2.90 *	0	2.9
	14,153.70	4/11/2008	1	SR1950	Completed	453726	08540001950	085 SR1950 0.00-0.96 *	0	0.96
	25,071.40	4/11/2008	2	SR1490	Completed	453803	08540001490	085 SR1490 0.00-1.22 *	0	1.22
	56,815.60	4/25/2008	1	SR1468	Completed	467338	02940001468	029 SR1468 0.00-4.60 *	1	2.7
	23,113.10	4/25/2008	1	SR1493	Completed	467337	02940001493	029 SR1493 0.00-6.32 *	0	6.32
	41,563.70	4/25/2008	1	SR1498	Completed	467336	02940001498	029 SR1498 0.00-1.97 *	0	1.97
	59,136.00	4/25/2008	1	SR1617	Completed	465163	03040001617	030 SR1617 0.00-2.80 *	0	2.8
	32,671.60	4/25/2008	1	SR1632	Scheduled	447513	03040001632	030 SR1632 0.00-1.58 *	0	1.58
	60,334.50	4/25/2008	1	SR1635	Completed	446543	03040001635	030 SR1635 0.00-2.89 *	0	2.89
	48,771.10	4/25/2008	1	SR1636	Completed	447514	03040001636	030 SR1636 0.00-2.35 *	0	1.2
	22,620.40	4/25/2008	1	SR1657	Completed	446558	03040001657	030 SR1657 0.00-1.12 *	0	1.12

Find (Ctrl+F); Row 13 of 249;

Start | Calendar - Micr... | Untitled - ArcM... | 2007-08 Paint ... | NCDOT Gatew... | Visual/MMS ... | 8:16 AM


Untitled - ArcMap - ArcView
File Edit View Insert Selection Tools Window Help
1:734,661
Geoprocessing...
Editor
Task: Create New Feature
Target:
Layers
MUTCD Catagory
School Bus Signs
Signal_Inventory_T Events
Signalized Intersections
LOGO Signs
Sign Structures and Meters
Planned08
Stokes07
DavidsonAll
Davie07Final
Forsyth07
RowanAll
Division9All
Planned Snowplowable Routes
Div9All
08markers Events
Whole_Division
2006
Planned Snowplowable Routes
dotcntybdry
dotroads
Display Source Selection
2008 Planned Paint Routes
Drawing
Arial
10
1322313.99 1011573.08 Feet
Start
Inbox - Microsoft Outlook
Untitled - ArcMap - Ar...
2007 Paint - Paint
4:50 PM



7,249,699/5280 =
1,373 miles

Untitled - ArcMap - ArcView

File Edit View Insert Selection Tools Window Help

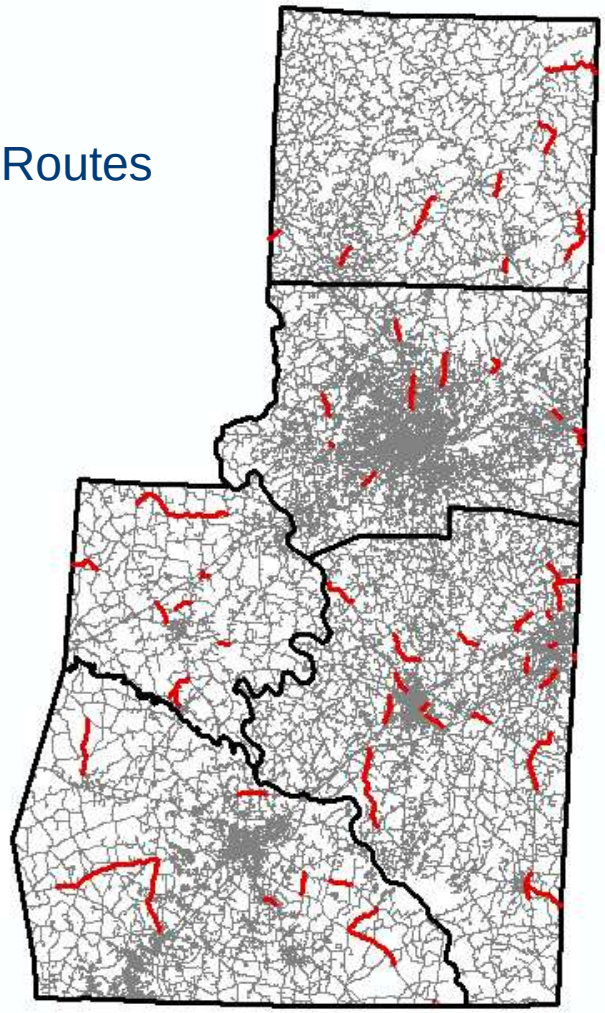
1:734,661 Geoprocessing...

Editor Task: Create New Feature Target:

Layers
- MUTCD Catagory
- School Bus Signs
- Signal_Inventory_T Events
- Signalized Intersections
- LOGO Signs
- Sign Structures and Meters
- Division9All
- Planned Snowplowable Routes
- Div9All
- 08markers Events
- Whole_Division
- 2006
- Planned Snowplowable Routes
- dotcntybdry
- dotroads

Display Source Selection

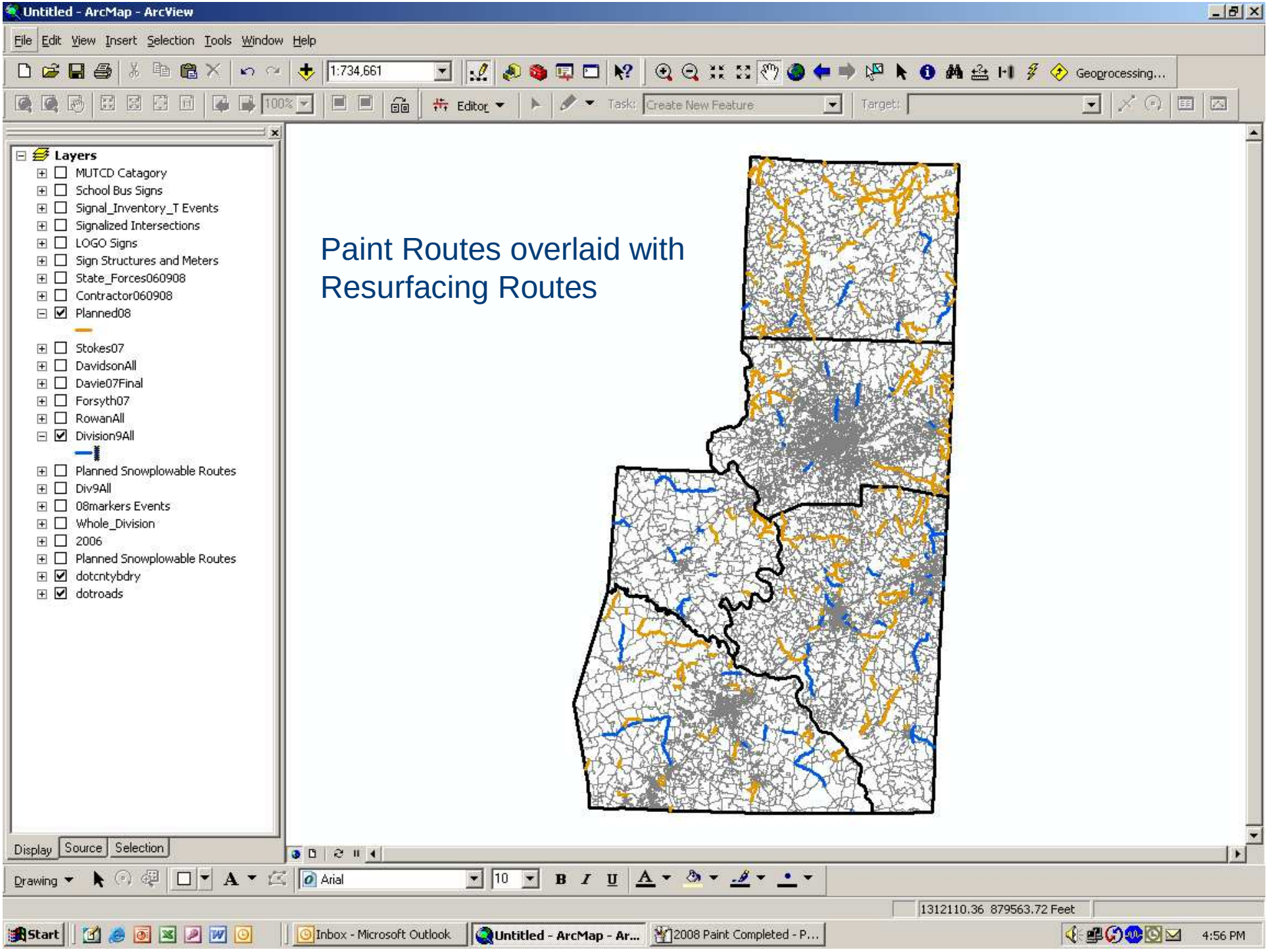
2008 Resurfacing Routes



Drawing Arial 10

1309559.46 818979.71 Feet

Start Inbox - Microsoft Outlook Untitled - ArcMap - Ar... Snowplowable Routes Ov... 4:38 PM


Untitled - ArcMap - ArcView
File Edit View Insert Selection Tools Window Help
1:734,661
Geoprocessing...
Editor
Task: Create New Feature
Target:
Layers
MUTCD Catagory
School Bus Signs
Signal_Inventory_T Events
Signalized Intersections
LOGO Signs
Sign Structures and Meters
State_Forces060908
Contractor060908
Planned08
Stokes07
DavidsonAll
Davie07Final
Forsyth07
RowanAll
Division9All
Planned Snowplowable Routes
Div9All
08markers Events
Whole_Division
2006
Planned Snowplowable Routes
dotcntybdry
dotroads
Display Source Selection
Paint Routes overlaid with
Resurfacing Routes
Drawing
Arial
10
1312110.36 879563.72 Feet
Start
Inbox - Microsoft Outlook
Untitled - ArcMap - Ar...
2008 Paint Completed - P...
4:56 PM

Untitled - ArcMap - ArcView

File Edit View Insert Selection Tools Window Help

1:734,661 Geoprocessing...

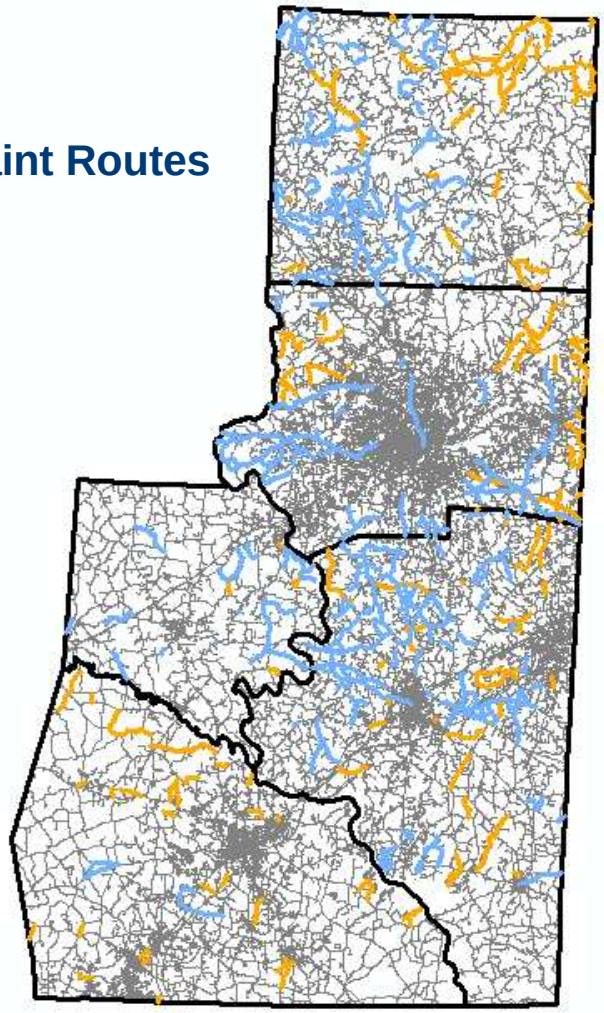
Editor Task: Create New Feature Target:

Layers

- MUTCD Catagory
- School Bus Signs
- Signal_Inventory_T Events
- Signalized Intersections
- LOGO Signs
- Sign Structures and Meters
- State_Forces060908
- Contractor060908
- Planned08
- Stokes07
- DavidsonAll
- Davie07Final
- Forsyth07
- RowanAll
- Division9All
- Planned Snowplowable Routes
- Div9All
- 08markers Events
- Whole_Division
- 2006
- Planned Snowplowable Routes
- dotcntybdry

Display Source Selection

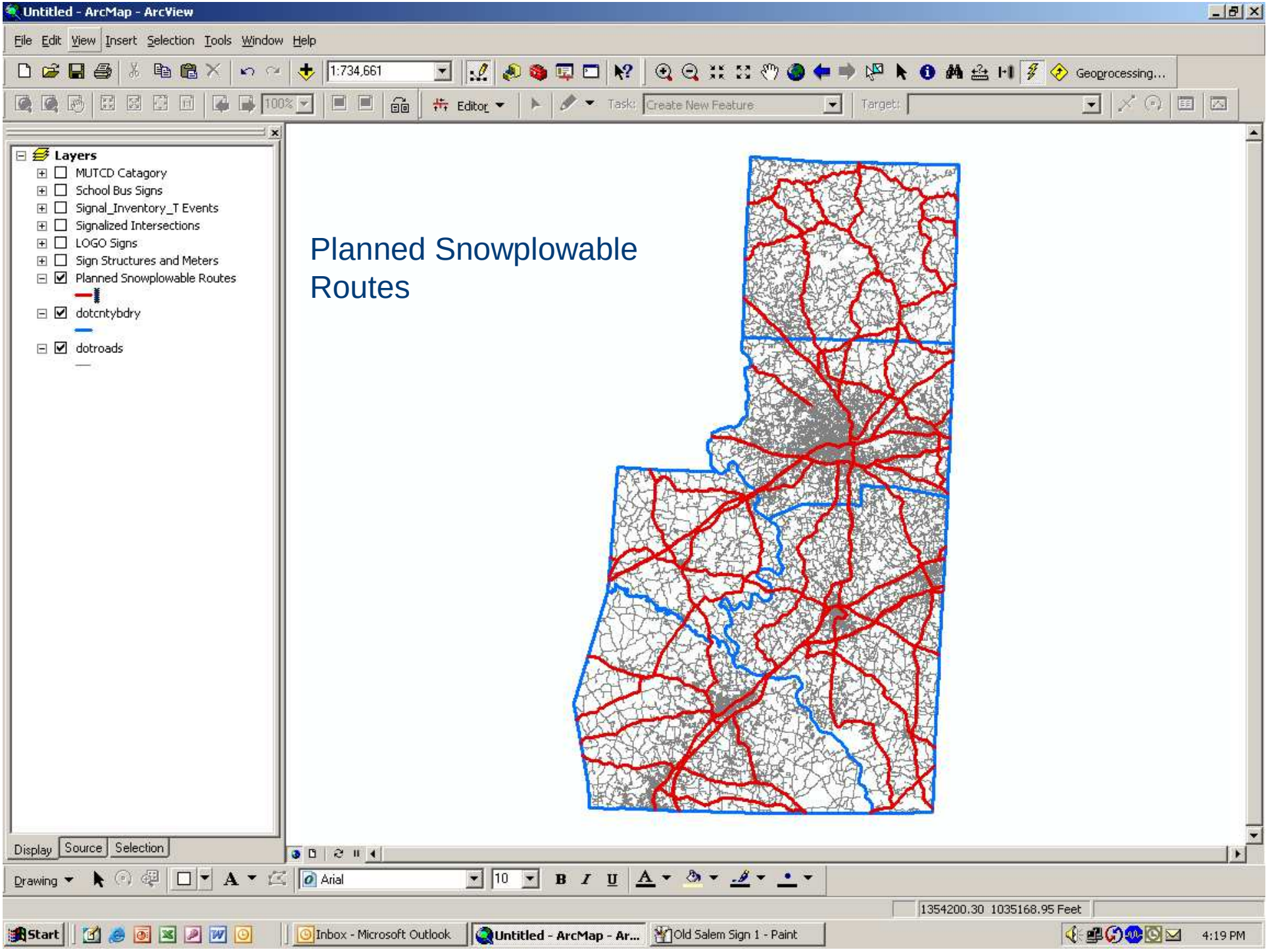
2008 Completed Paint Routes

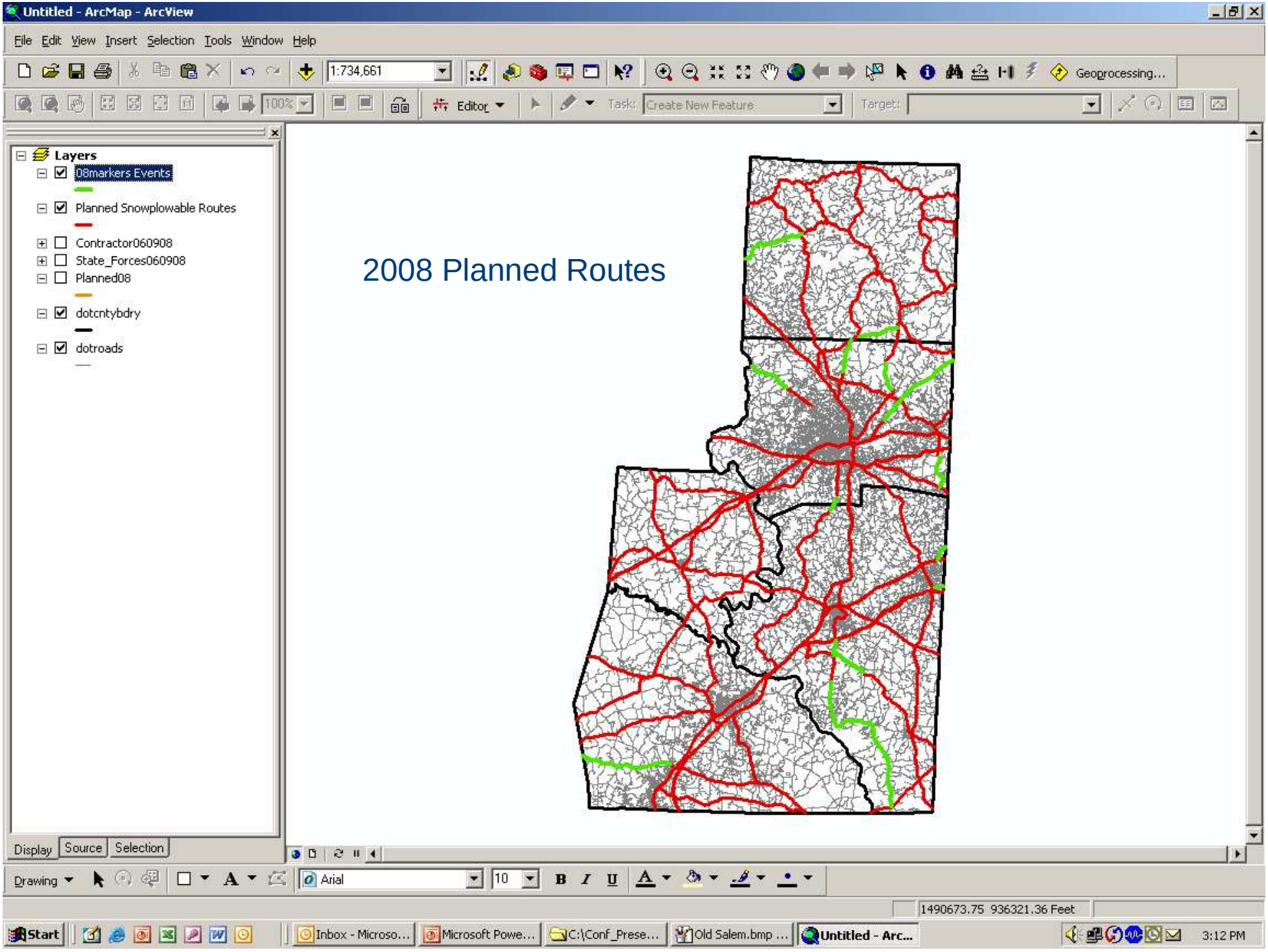


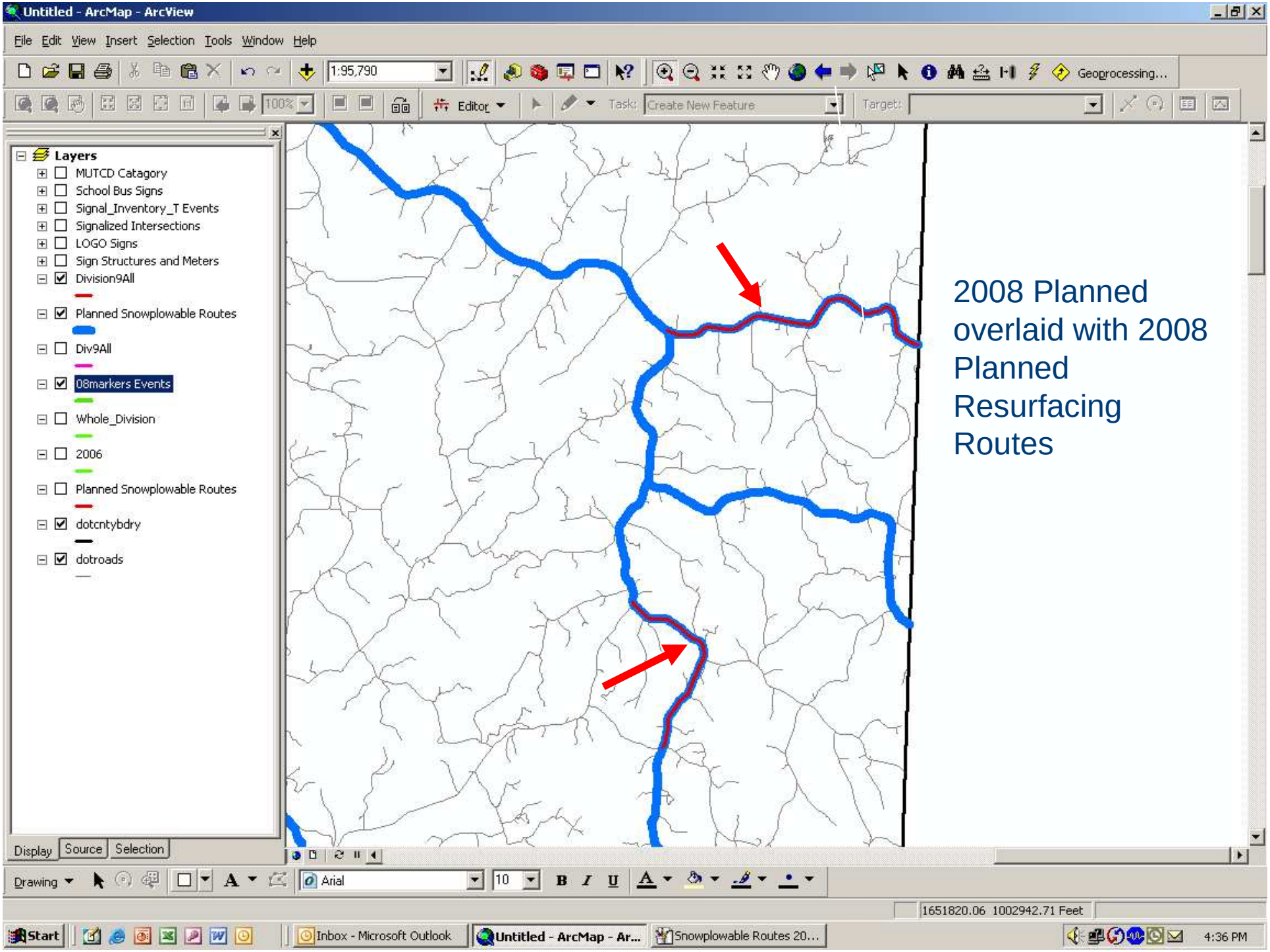
Drawing Arial 10

1361215.29 1026878.51 Feet

Start Inbox - Microsoft Outlook Untitled - ArcMap - Ar... 2008 Paint Planned - Paint 4:51 PM


Untitled - ArcMap - ArcView
File Edit View Insert Selection Tools Window Help
1:734,661
Geoprocessing...
Editor
Task: Create New Feature
Target:
Layers
MUTCD Catagory
School Bus Signs
Signal_Inventory_T Events
Signalized Intersections
LOGO Signs
Sign Structures and Meters
Planned Snowplowable Routes
dotcntybdry
dotroads
Display Source Selection
Planned Snowplowable Routes
Drawing
Arial
10
1354200.30 1035168.95 Feet
Start
Inbox - Microsoft Outlook
Untitled - ArcMap - Ar...
Old Salem Sign 1 - Paint
4:19 PM


Untitled - ArcMap - ArcView
File Edit View Insert Selection Tools Window Help
1:734,661
Geoprocessing...
Editor
Task: Create New Feature
Target:
Layers
08markers Events
Planned Snowplowable Routes
Contractor060908
State_Forces060908
Planned08
dotcntybdry
dotroads
2008 Planned Routes
Display Source Selection
Drawing
Arial
10
1490673.75 936321.36 Feet
Start
Inbox - Microso...
Microsoft Powe...
C:\Conf_Prese...
Old Salem.bmp ...
Untitled - Arc...
3:12 PM



2008 Planned overlaid with 2008 Planned Resurfacing Routes

Untitled - ArcMap - ArcView

File Edit View Insert Selection Tools Window Help

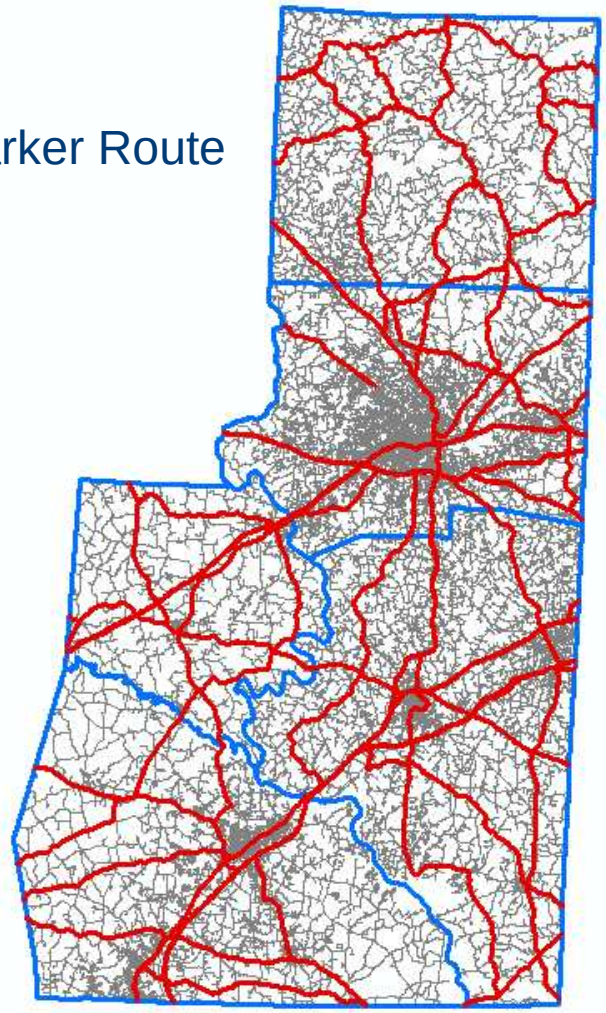
1:734,661 Geoprocessing...

Editor Task: Create New Feature Target:

Layers
- MUTCD Catagory
- School Bus Signs
- Signal_Inventory_T Events
- Signalized Intersections
- LOGO Signs
- Sign Structures and Meters
- Planned Snowplowable Routes
- dotcntybdry
- dotroads

Display Source Selection

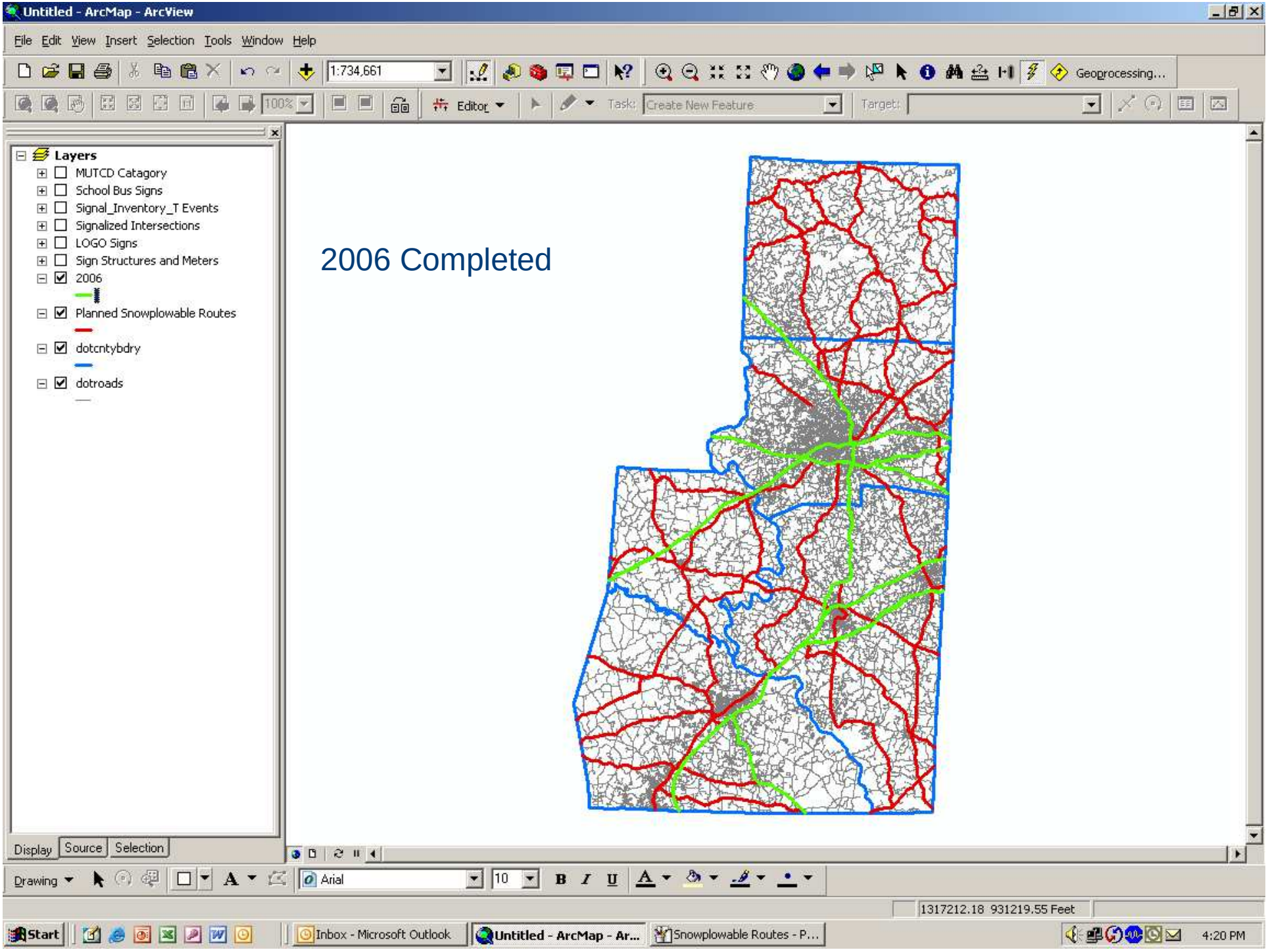
Snowplowable Marker Route History

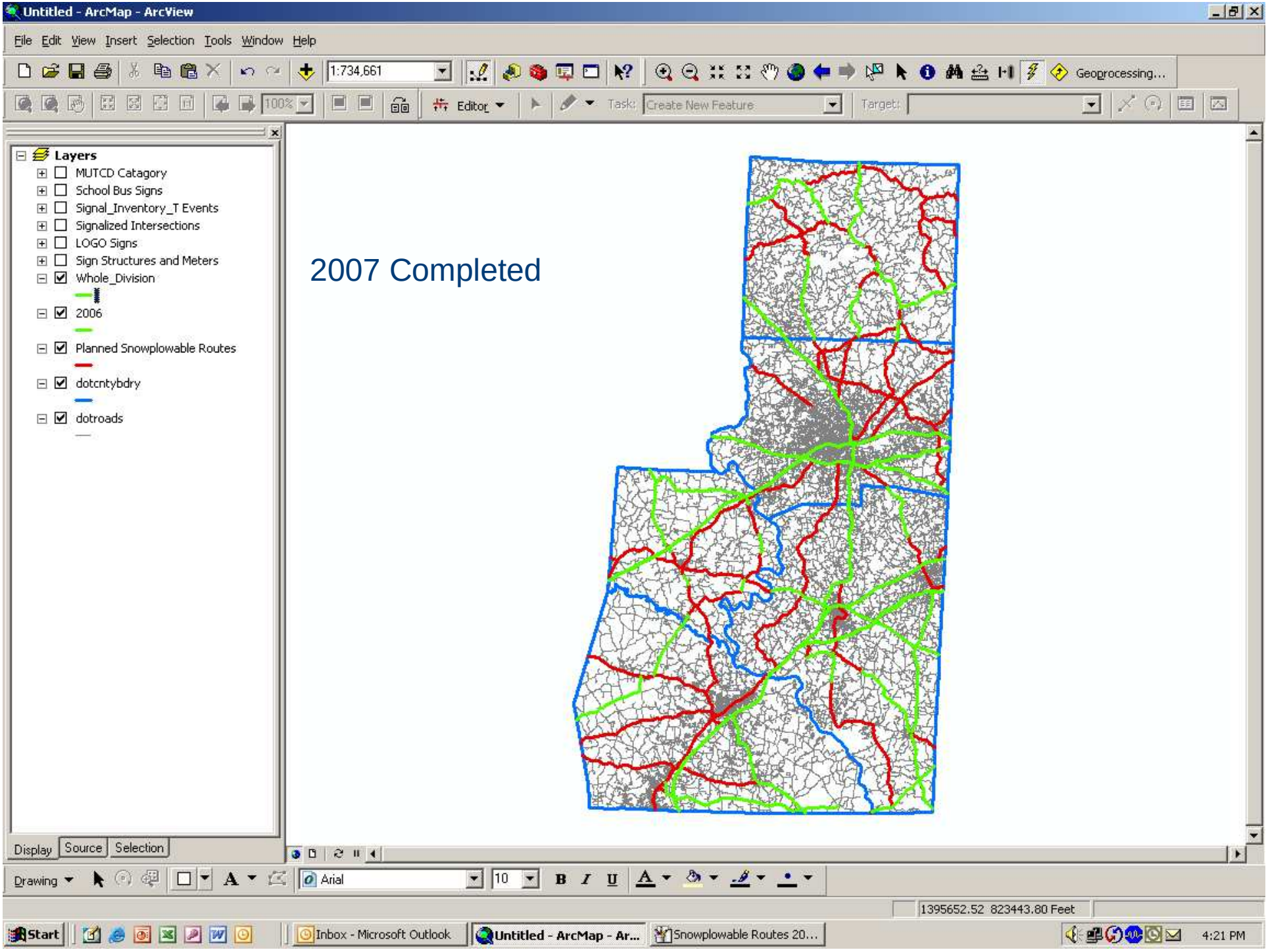


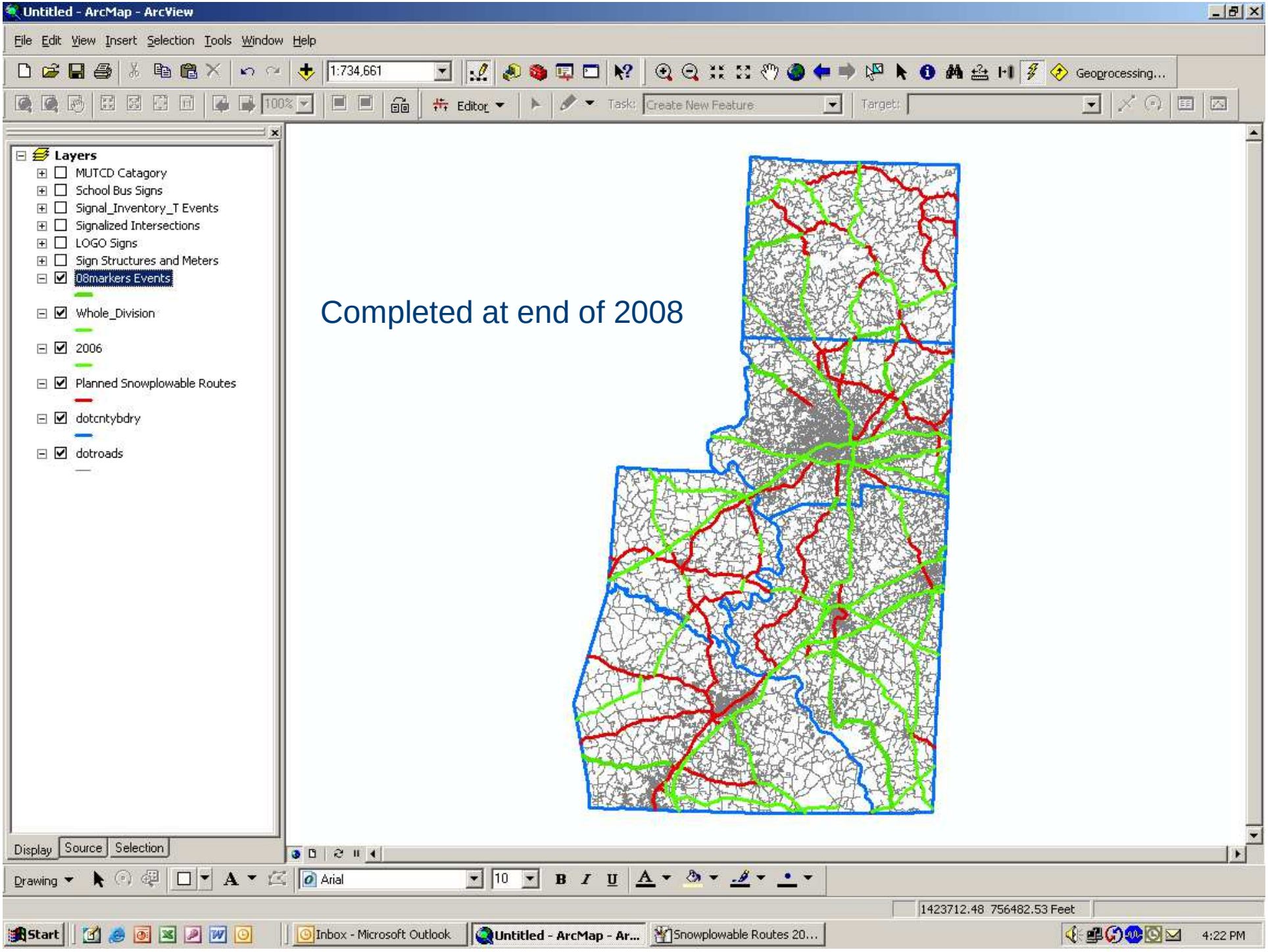
Drawing Arial 10

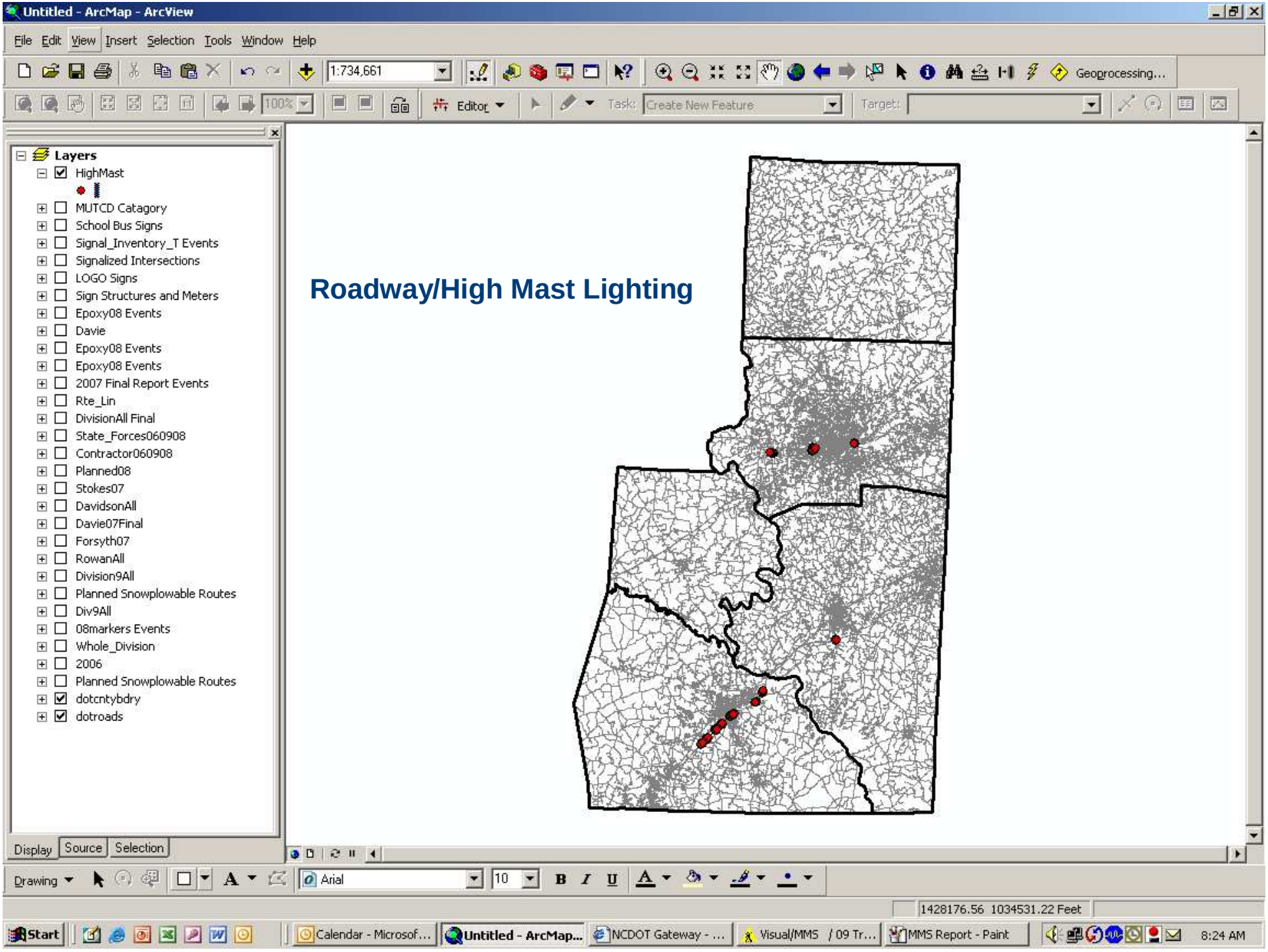
1354200.30 1035168.95 Feet

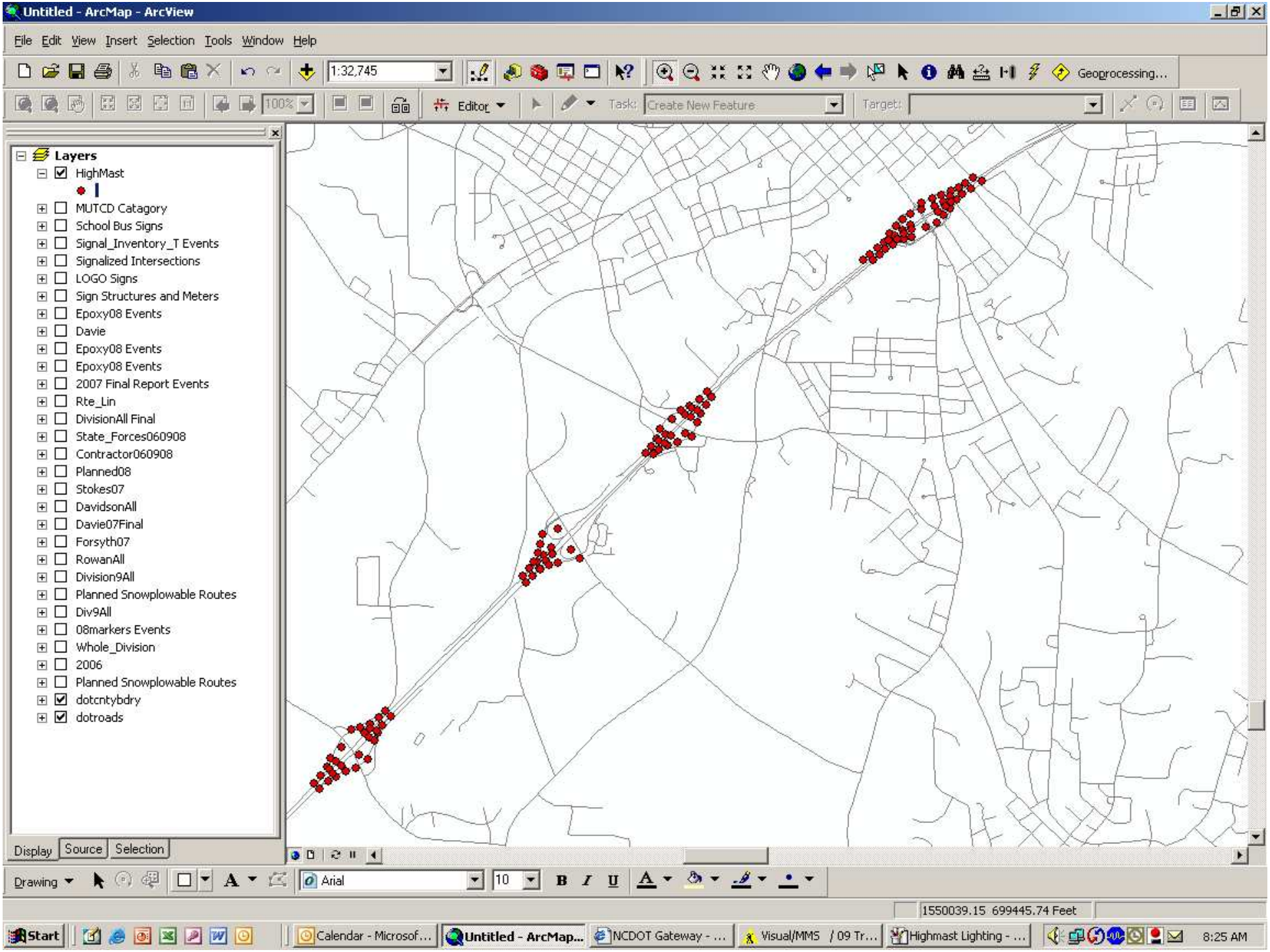
Start Inbox - Microsoft Outlook Untitled - ArcMap - Ar... Old Salem Sign 1 - Paint 4:19 PM

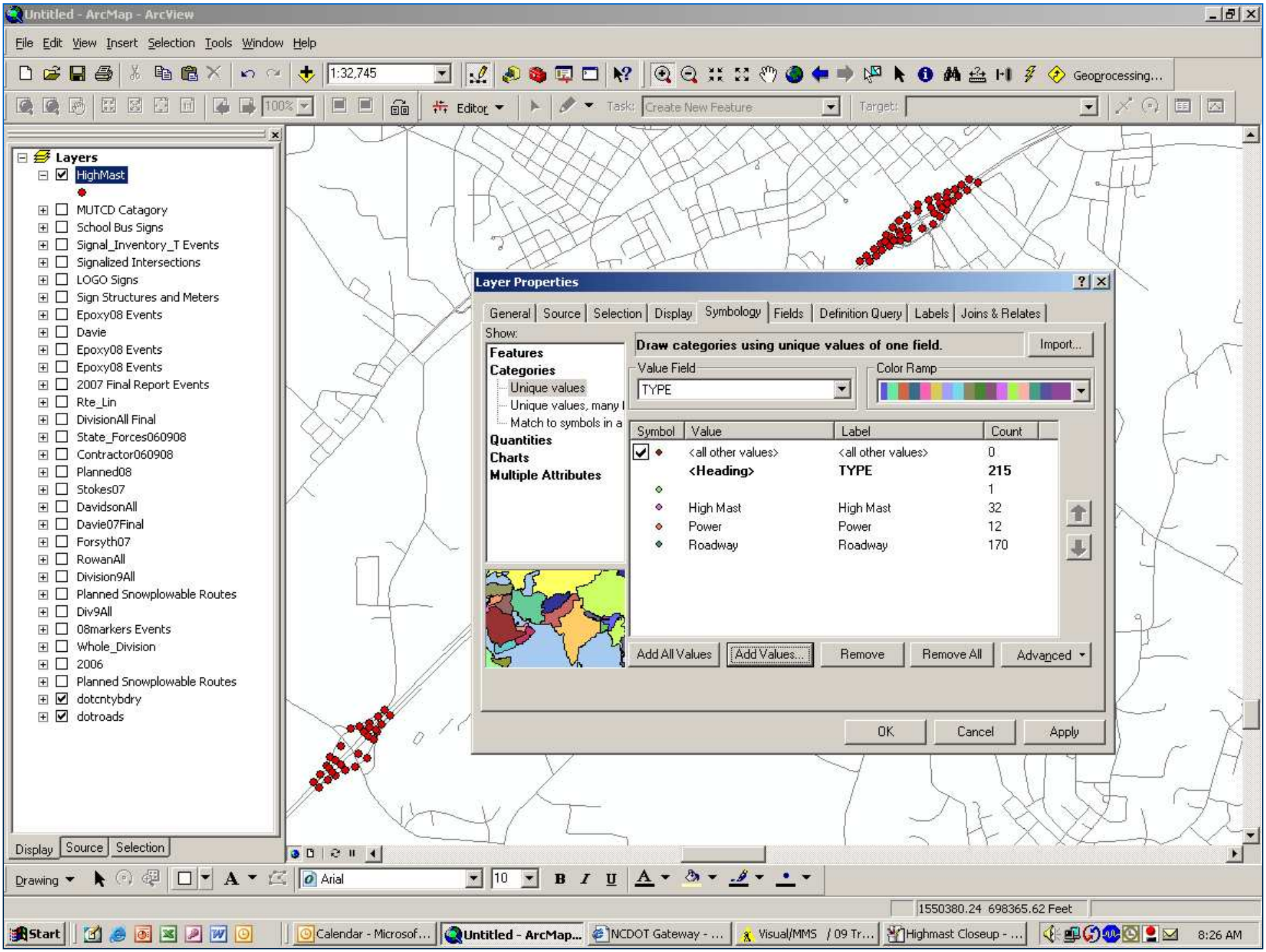

Untitled - ArcMap - ArcView
File Edit View Insert Selection Tools Window Help
1:734,661
Geoprocessing...
Editor
Task: Create New Feature
Target:
Layers
MUTCD Catagory
School Bus Signs
Signal_Inventory_T Events
Signalized Intersections
LOGO Signs
Sign Structures and Meters
2006
Planned Snowplowable Routes
dotcntybdry
dotroads
2006 Completed
Display
Source
Selection
Drawing
Arial
10
1317212.18 931219.55 Feet
Start
Inbox - Microsoft Outlook
Untitled - ArcMap - Ar...
Snowplowable Routes - P...
4:20 PM

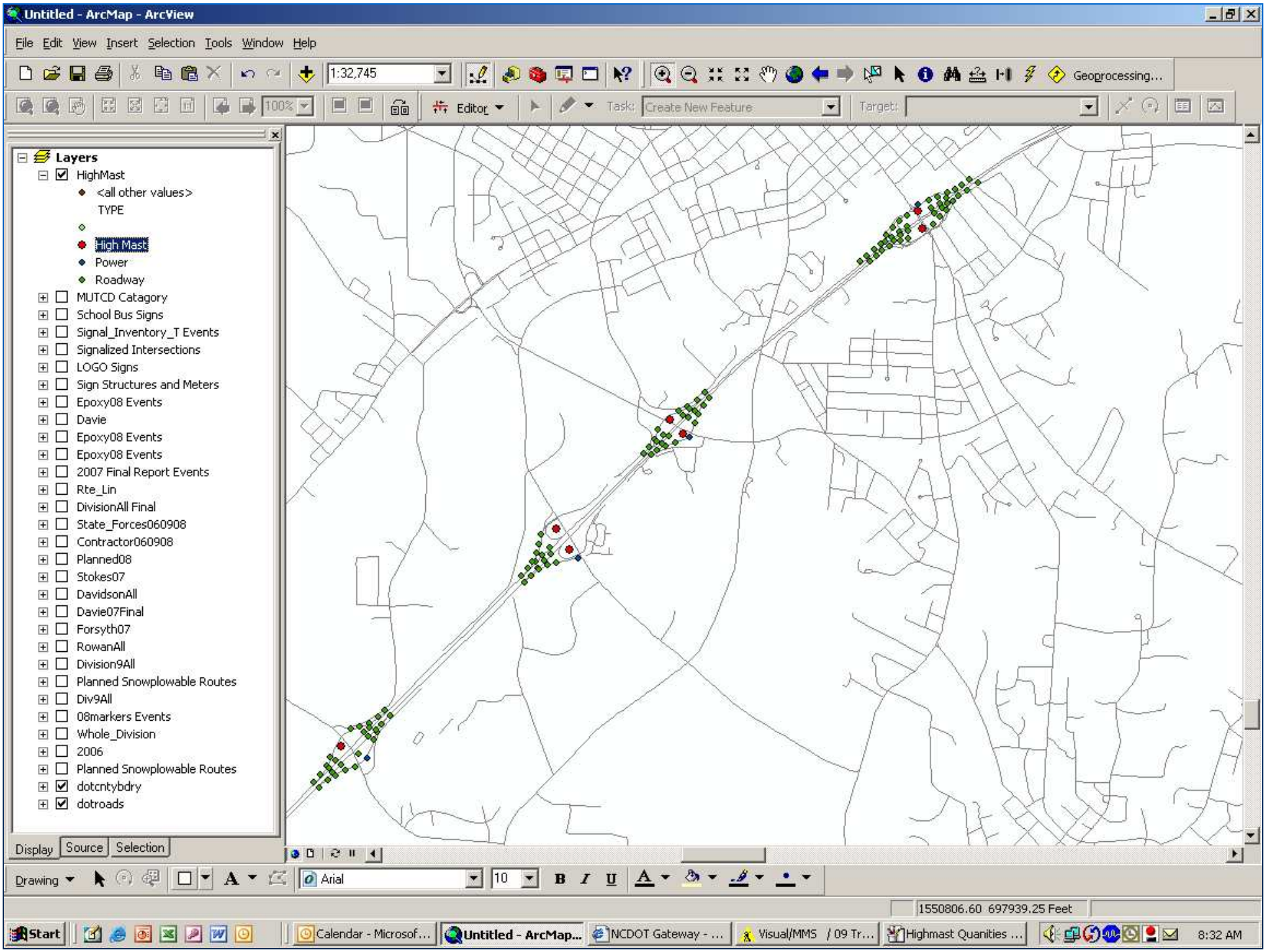

Untitled - ArcMap - ArcView
File Edit View Insert Selection Tools Window Help
1:734,661
Geoprocessing...
Editor
Task: Create New Feature
Target:
Layers
MUTCD Catagory
School Bus Signs
Signal_Inventory_T Events
Signalized Intersections
LOGO Signs
Sign Structures and Meters
Whole_Division
2006
Planned Snowplowable Routes
dotcntybdry
dotroads
Display Source Selection
2007 Completed
Drawing
Arial
10
1395652.52 823443.80 Feet
Start
Inbox - Microsoft Outlook
Untitled - ArcMap - Ar...
Snowplowable Routes 20...
4:21 PM

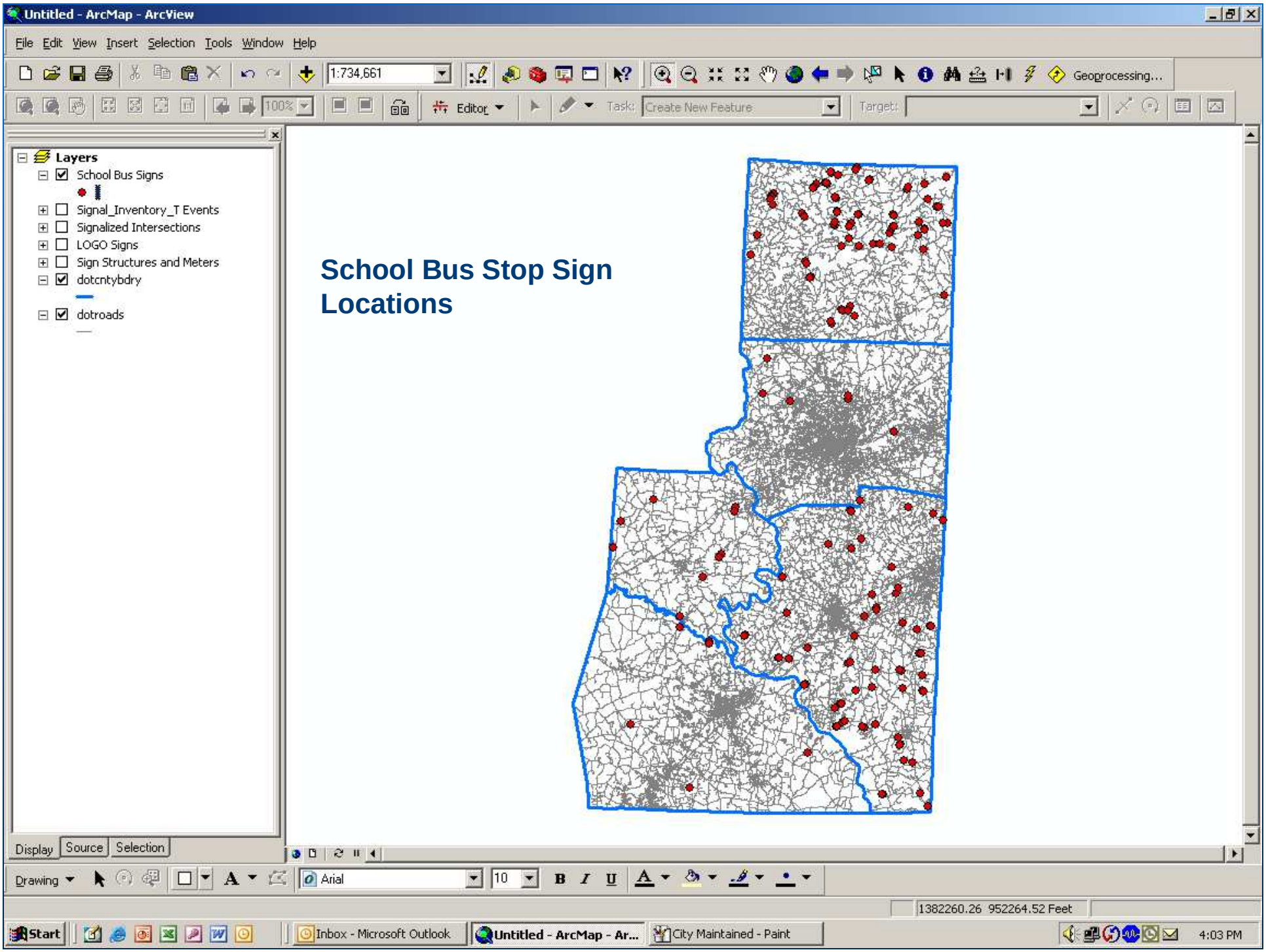

Untitled - ArcMap - ArcView
File Edit View Insert Selection Tools Window Help
1:734,661
Geoprocessing...
Editor
Task: Create New Feature
Target:
Layers
MUTCD Catagory
School Bus Signs
Signal_Inventory_T Events
Signalized Intersections
LOGO Signs
Sign Structures and Meters
08markers Events
Whole_Division
2006
Planned Snowplowable Routes
dotcntybdry
dotroads
Completed at end of 2008
Display
Source
Selection
Drawing
Arial
10
1423712.48 756482.53 Feet
Start
Inbox - Microsoft Outlook
Untitled - ArcMap - Ar...
Snowplowable Routes 20...
4:22 PM


Untitled - ArcMap - ArcView
File Edit View Insert Selection Tools Window Help
1:734,661
Geoprocessing...
Editor
Task: Create New Feature
Target:
Layers
HighMast
MUTCD Catagory
School Bus Signs
Signal_Inventory_T Events
Signalized Intersections
LOGO Signs
Sign Structures and Meters
Epoxy08 Events
Davie
Epoxy08 Events
Epoxy08 Events
2007 Final Report Events
Rte_Lin
DivisionAll Final
State_Forces060908
Contractor060908
Planned08
Stokes07
DavidsonAll
Davie07Final
Forsyth07
RowanAll
Division9All
Planned Snowplowable Routes
Div9All
08markers Events
Whole_Division
2006
Planned Snowplowable Routes
dotcntybdry
dotroads
Display Source Selection
Roadway/High Mast Lighting
Drawing
Arial
10
1428176.56 1034531.22 Feet
Start
Calendar - Microsof...
Untitled - ArcMap...
NCDOT Gateway - ...
Visual/MMS / 09 Tr...
MMS Report - Paint
8:24 AM

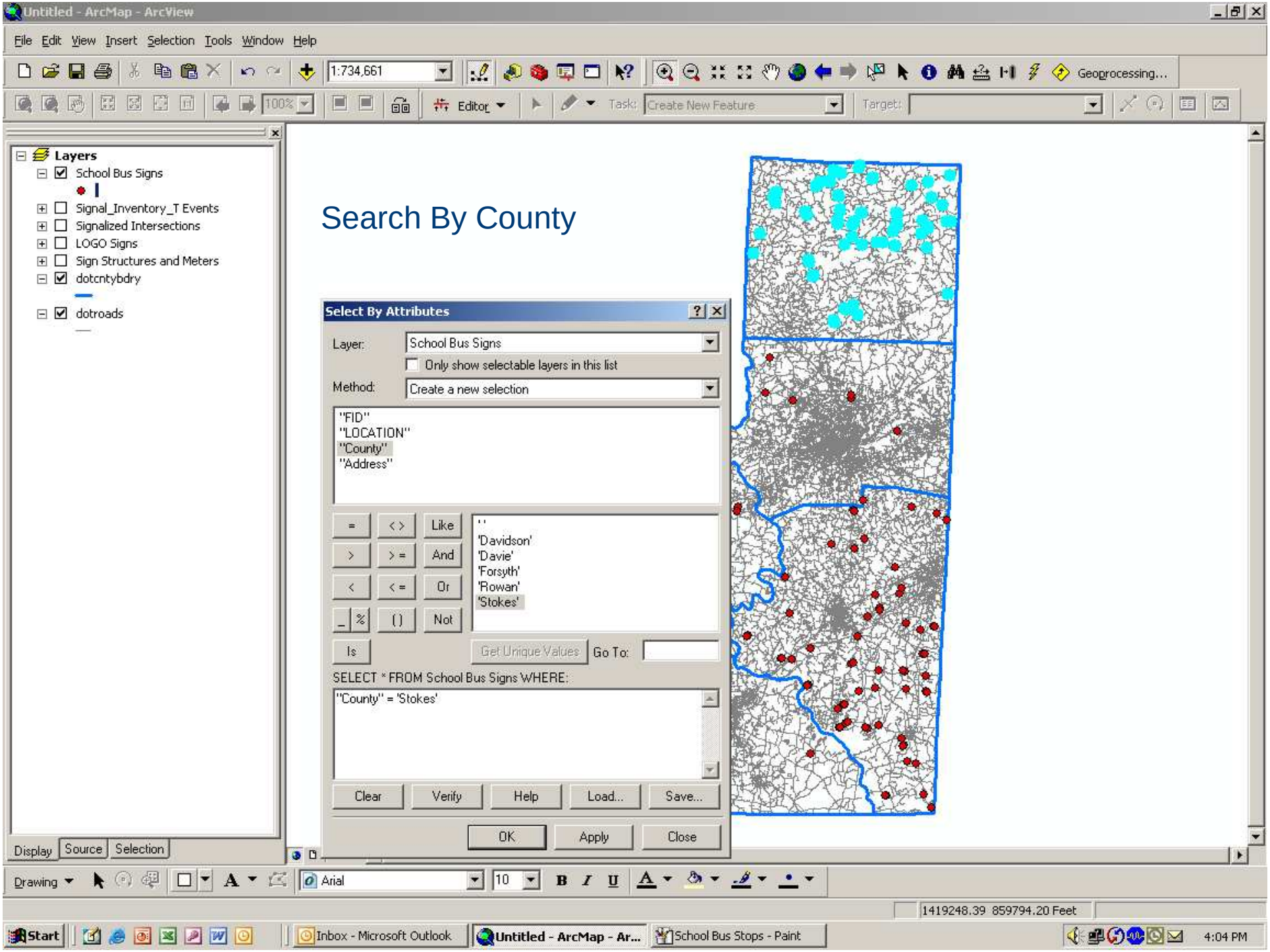

Untitled - ArcMap - ArcView
File Edit View Insert Selection Tools Window Help
1:32,745
Geoprocessing...
Editor
Task: Create New Feature
Target:
Layers
HighMast
MUTCD Catagory
School Bus Signs
Signal_Inventory_T Events
Signalized Intersections
LOGO Signs
Sign Structures and Meters
Epoxy08 Events
Davie
Epoxy08 Events
Epoxy08 Events
2007 Final Report Events
Rte_Lin
DivisionAll Final
State_Forces060908
Contractor060908
Planned08
Stokes07
DavidsonAll
Davie07Final
Forsyth07
RowanAll
Division9All
Planned Snowplowable Routes
Div9All
08markers Events
Whole_Division
2006
Planned Snowplowable Routes
dotcntybdry
dotroads
Display Source Selection
Drawing
Arial
10
1550039.15 699445.74 Feet
Start
Calendar - Microsof...
Untitled - ArcMap...
NCDOT Gateway - ...
Visual/MMS / 09 Tr...
Highmast Lighting - ...
8:25 AM


Untitled - ArcMap - ArcView
File Edit View Insert Selection Tools Window Help
1:32,745
Geoprocessing...
Editor
Task: Create New Feature
Target:
Layers
HighMast
MUTCD Catagory
School Bus Signs
Signal_Inventory_T Events
Signalized Intersections
LOGO Signs
Sign Structures and Meters
Epoxy08 Events
Davie
Epoxy08 Events
Epoxy08 Events
2007 Final Report Events
Rte_Lin
DivisionAll Final
State_Forces060908
Contractor060908
Planned08
Stokes07
DavidsonAll
Davie07Final
Forsyth07
RowanAll
Division9All
Planned Snowplowable Routes
Div9All
08markers Events
Whole_Division
2006
Planned Snowplowable Routes
dotcntybdry
dotroads
Display Source Selection
Layer Properties
General Source Selection Display Symbology Fields Definition Query Labels Joins & Relates
Show:
Features
Categories
Unique values
Unique values, many
Match to symbols in a
Quantities
Charts
Multiple Attributes
Draw categories using unique values of one field.
Import...
Value Field
TYPE
Color Ramp
Symbol Value Label Count
<all other values> <all other values> 0
<Heading> TYPE 215
1
High Mast High Mast 32
Power Power 12
Roadway Roadway 170
Add All Values
Add Values...
Remove
Remove All
Advanced
OK
Cancel
Apply
Drawing
Arial
10
1550380.24 698365.62 Feet
Start
Calendar - Microsof...
Untitled - ArcMap...
NCDOT Gateway - ...
Visual/MMS / 09 Tr...
Highmast Closeup - ...
8:26 AM


Untitled - ArcMap - ArcView
File Edit View Insert Selection Tools Window Help
1:32,745
Geoprocessing...
Editor
Task: Create New Feature
Target:
Layers
HighMast
<all other values>
TYPE
High Mast
Power
Roadway
MUTCD Catagory
School Bus Signs
Signal_Inventory_T Events
Signalized Intersections
LOGO Signs
Sign Structures and Meters
Epoxy08 Events
Davie
Epoxy08 Events
Epoxy08 Events
2007 Final Report Events
Rte_Lin
DivisionAll Final
State_Forces060908
Contractor060908
Planned08
Stokes07
DavidsonAll
Davie07Final
Forsyth07
RowanAll
Division9All
Planned Snowplowable Routes
Div9All
08markers Events
Whole_Division
2006
Planned Snowplowable Routes
dotcntybdry
dotroads
Display Source Selection
Drawing
Arial
10
1550806.60 697939.25 Feet
Start
Calendar - Microsof...
Untitled - ArcMap...
NCDOT Gateway - ...
Visual/MMS / 09 Tr...
Highmast Quanities ...
8:32 AM



School Bus Stop Sign Locations


Untitled - ArcMap - ArcView
File Edit View Insert Selection Tools Window Help
1:734,661
Geoprocessing...
Editor
Task: Create New Feature
Target:
Layers
School Bus Signs
Signal_Inventory_T Events
Signalized Intersections
LOGO Signs
Sign Structures and Meters
dotcntybdry
dotroads
Display Source Selection
Search By County
Select By Attributes
Layer: School Bus Signs
Only show selectable layers in this list
Method: Create a new selection
"FID"
"LOCATION"
"County"
"Address"
= <> Like
> >= And
< <= Or
_ % ( ) Not
Is
Get Unique Values
Go To:
'Davidson'
'Davie'
'Forsyth'
'Rowan'
'Stokes'
SELECT * FROM School Bus Signs WHERE:
"County" = 'Stokes'
Clear Verify Help Load... Save...
OK Apply Close
Drawing
Arial
10
1419248.39 859794.20 Feet
Start
Inbox - Microsoft Outlook
Untitled - ArcMap - Ar...
School Bus Stops - Paint
4:04 PM

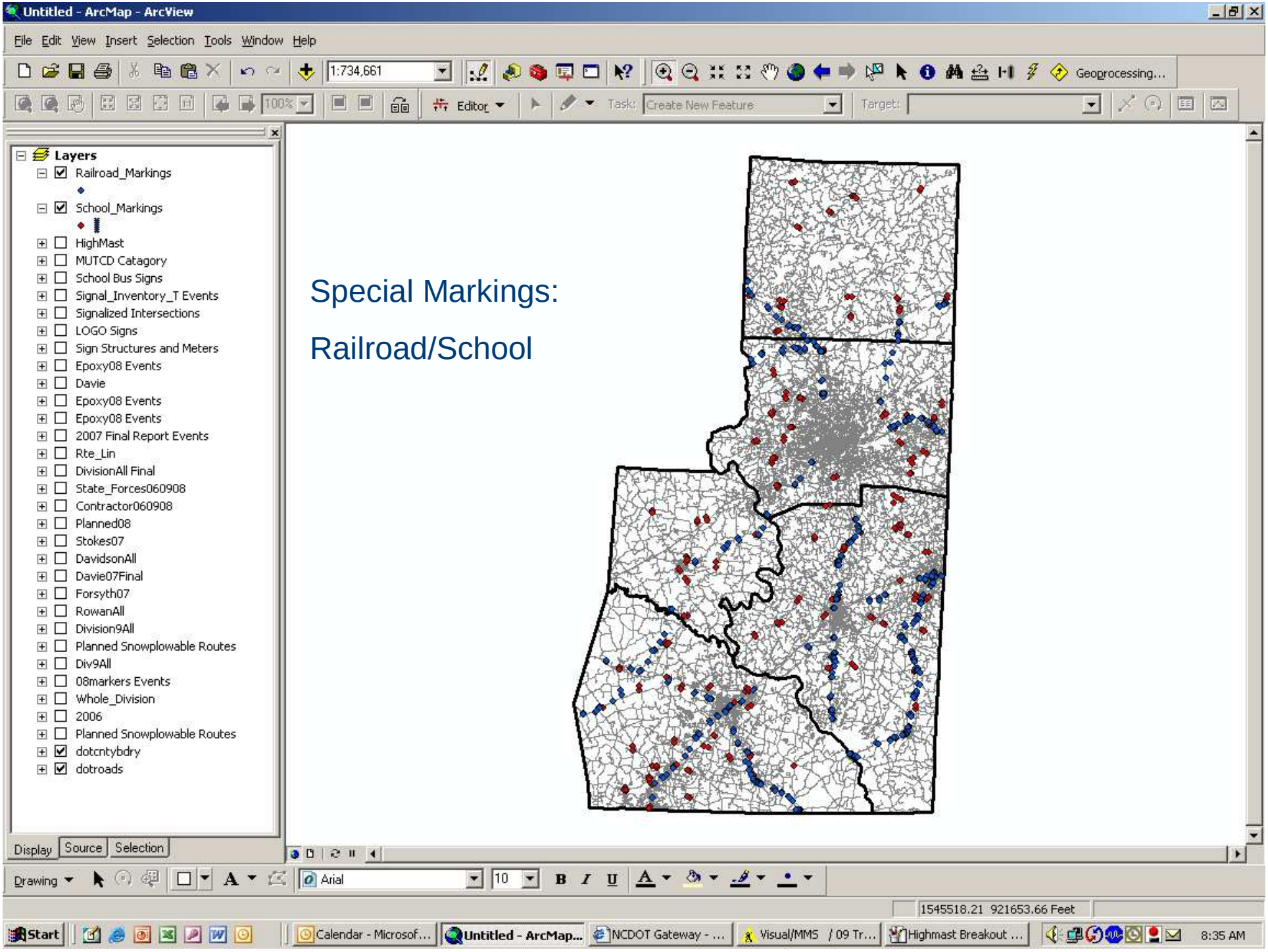
Selected Attributes of School Bus Signs

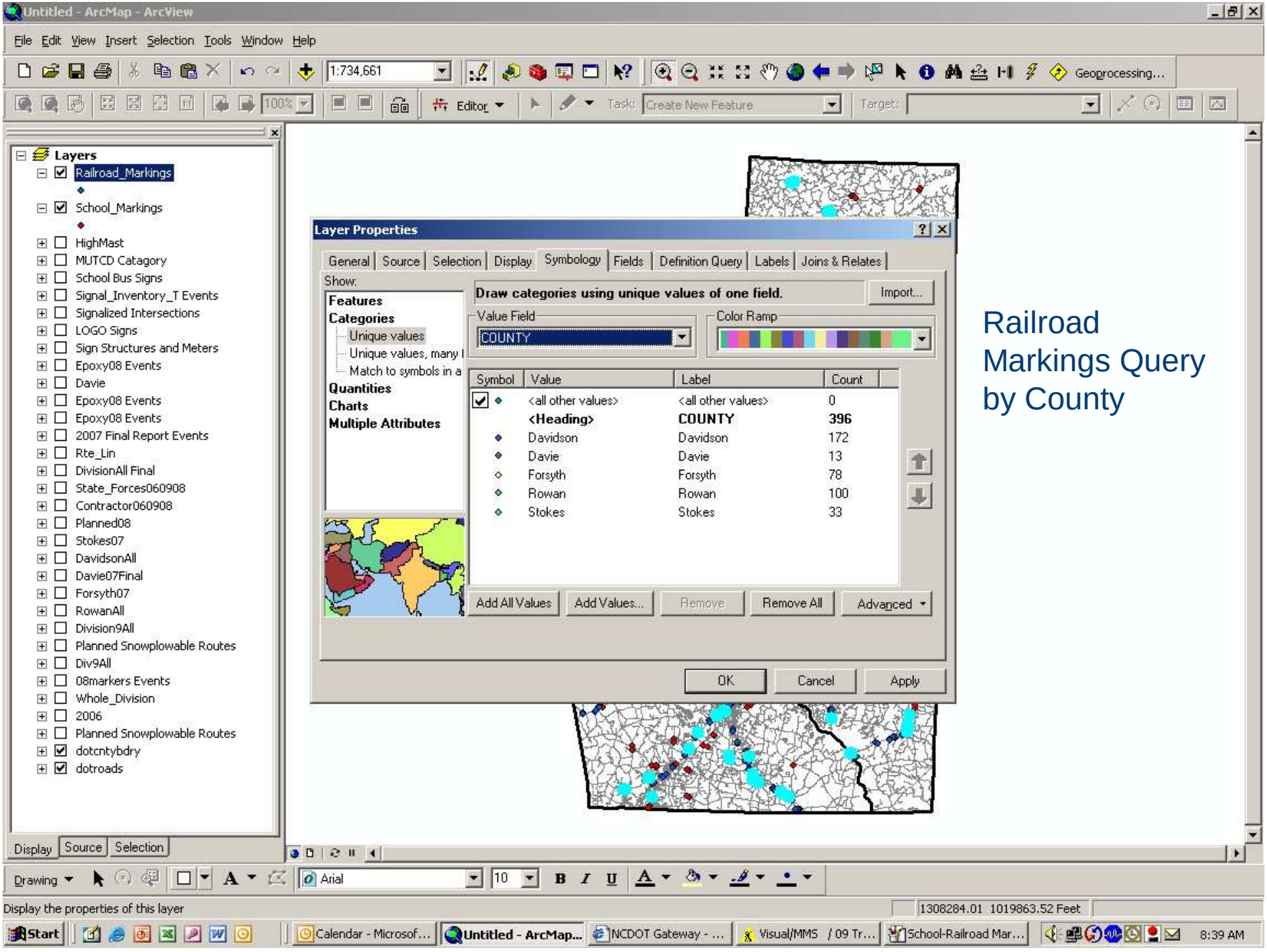
FID	Shape*	LOCATION	County	Address
0	Point	NC 89	Stokes	0
1	Point	SR 1001	Stokes	0
2	Point	NC 66	Stokes	0
3	Point	NC 66	Stokes	0
4	Point	SR 2019	Stokes	0
5	Point	SR 2019	Stokes	0
6	Point	SR 1973	Stokes	0
7	Point	SR 1973	Stokes	0
8	Point	NC 8	Stokes	0
9	Point	NC 8	Stokes	0
10	Point	NC 8	Stokes	0
11	Point	SR 2068	Stokes	0
12	Point	SR 1955	Stokes	0
13	Point	SR 1955	Stokes	0
22	Point	NC 8	Stokes	2852
23	Point	NC 8	Stokes	2852
24	Point	SR 1496	Stokes	0
25	Point	SR 1496	Stokes	0
27	Point	SR 1674	Stokes	0
28	Point	SR 1674	Stokes	0
29	Point	SR 1697	Stokes	0
30	Point	SR 1674	Stokes	0
31	Point	SR 1674	Stokes	0
32	Point	SR 1674	Stokes	0
33	Point	SR 1674	Stokes	0
34	Point	NC 704	Stokes	0
35	Point	NC 704	Stokes	0
36	Point	SR 1678	Stokes	0
37	Point	SR 1678	Stokes	0
38	Point	SR 772	Stokes	0
39	Point	SR 1695	Stokes	0
40	Point	SR 772	Stokes	0
41	Point	SR 770	Stokes	0
42	Point	SR 1625	Stokes	0
43	Point	SR 1625	Stokes	0
44	Point	NC 704	Stokes	0
45	Point	NC 704	Stokes	0
46	Point	SR 1602	Stokes	0
47	Point	SR 1602	Stokes	0
48	Point	NC 8	Stokes	0
49	Point	NC 8	Stokes	0
50	Point	NC 8	Stokes	0
51	Point	SR 1496	Stokes	0
52	Point	SR 1496	Stokes	0
53	Point	SR 1496	Stokes	0

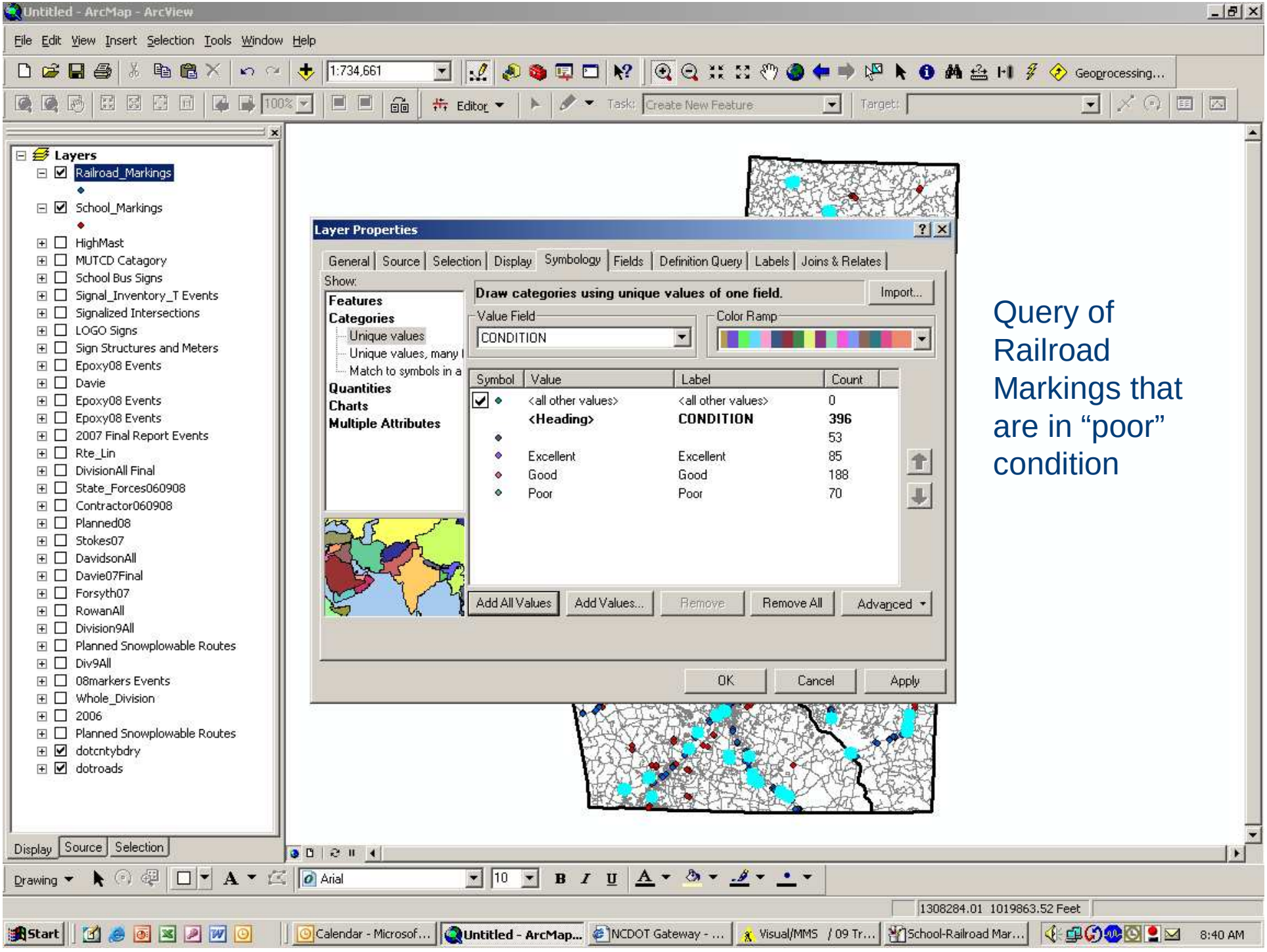
Record: 1 Show: All Selected Records (73 out of 159 Selected.) Options

Can get results of query in a standard database print out

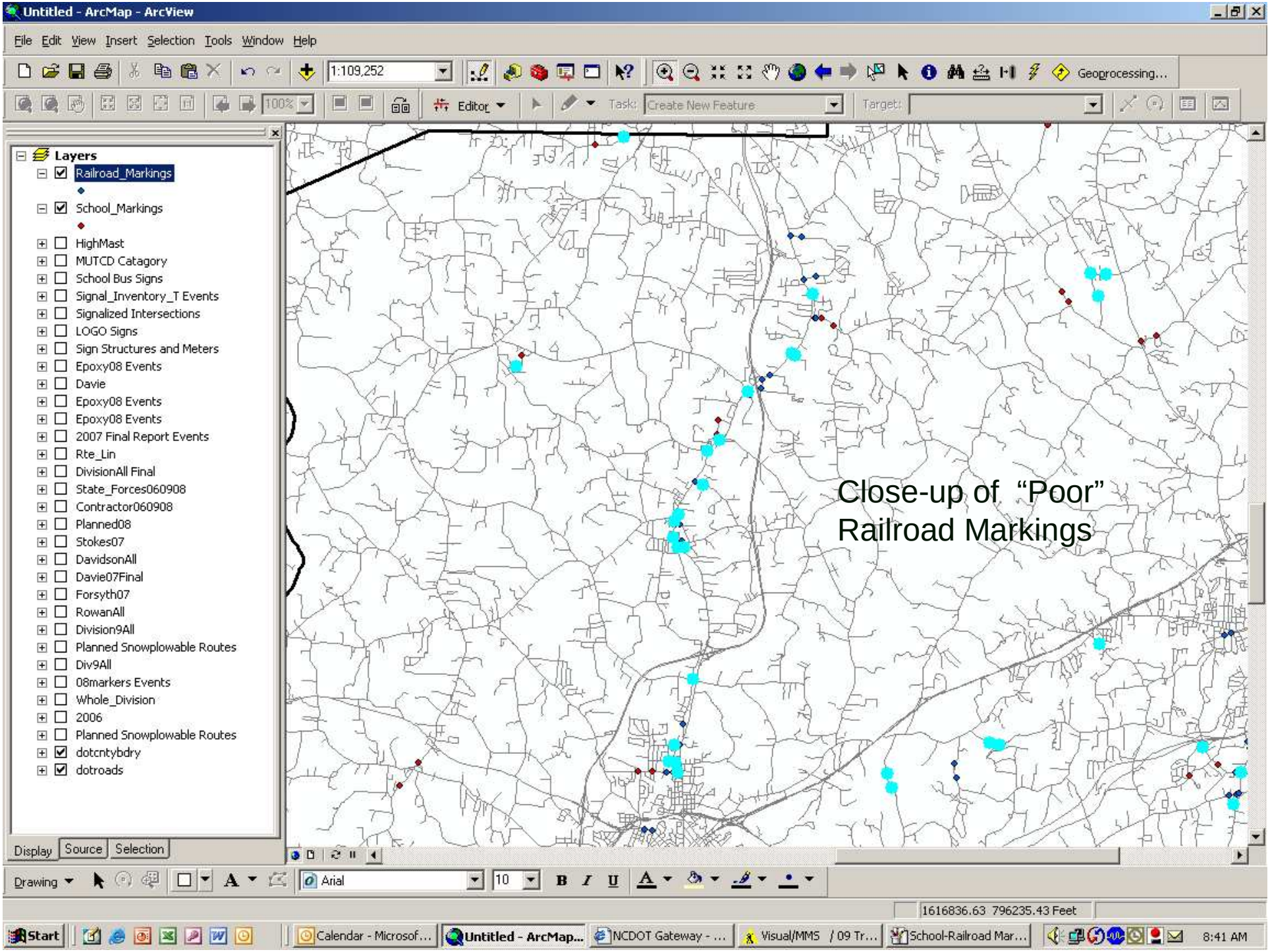
Start Inbox - Microsoft Outlook Untitled - ArcMap - Ar... School Bus Stop Querry - ... 4:05 PM


Untitled - ArcMap - ArcView
File Edit View Insert Selection Tools Window Help
1:734,661
Geoprocessing...
Editor
Task: Create New Feature
Target:
Layers
Railroad_Markings
School_Markings
HighMast
MUTCD Catagory
School Bus Signs
Signal_Inventory_T Events
Signalized Intersections
LOGO Signs
Sign Structures and Meters
Epoxy08 Events
Davie
Epoxy08 Events
Epoxy08 Events
2007 Final Report Events
Rte_Lin
DivisionAll Final
State_Forces060908
Contractor060908
Planned08
Stokes07
DavidsonAll
Davie07Final
Forsyth07
RowanAll
Division9All
Planned Snowplowable Routes
Div9All
08markers Events
Whole_Division
2006
Planned Snowplowable Routes
dotcntybdry
dotroads
Display Source Selection
Special Markings:
Railroad/School
Drawing
Arial
10
1545518.21 921653.66 Feet
Start
Calendar - Microsof...
Untitled - ArcMap...
NCDOT Gateway - ...
Visual/MMS / 09 Tr...
Highmast Breakout ...
8:35 AM

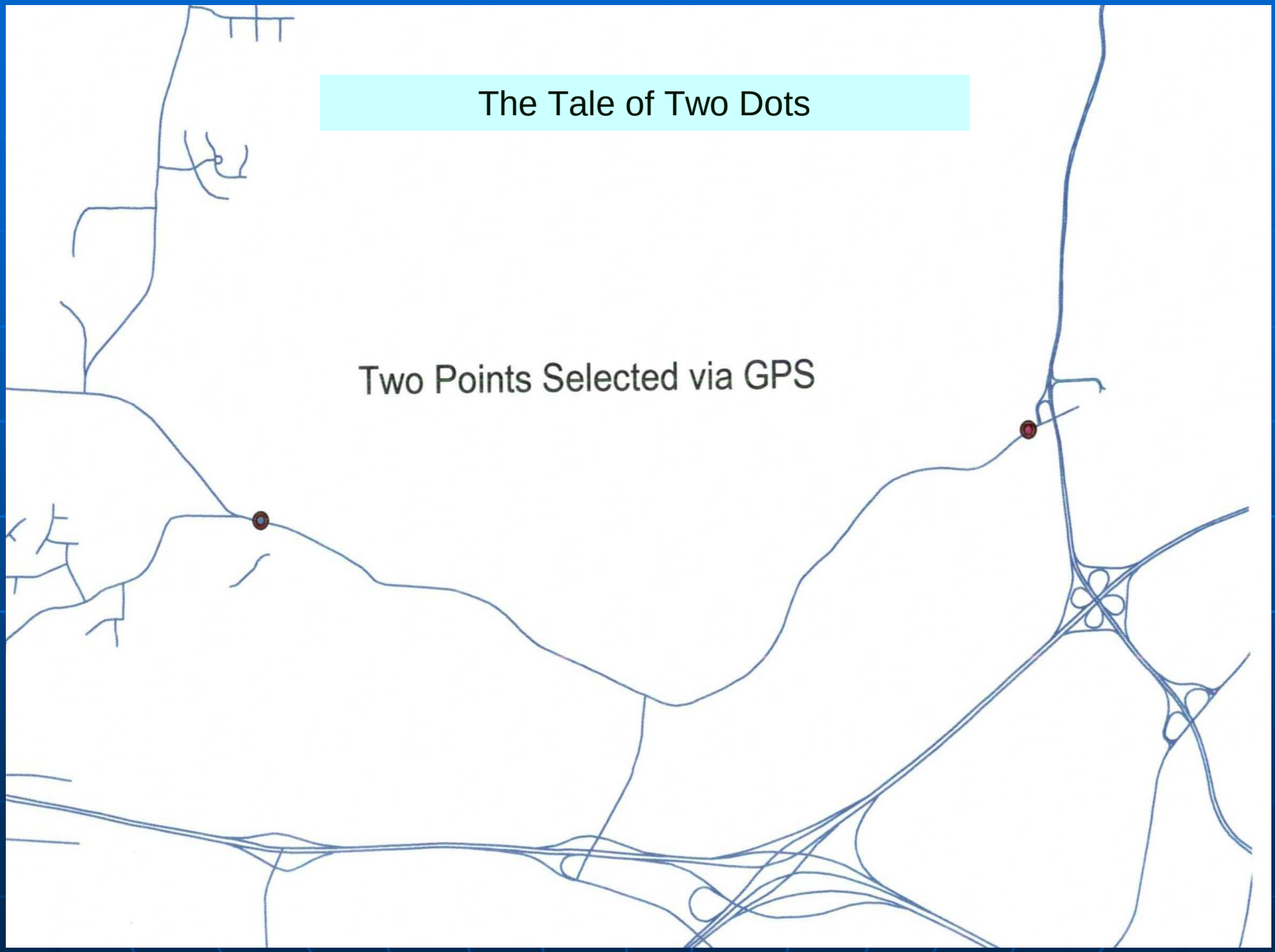

Untitled - ArcMap - ArcView
File Edit View Insert Selection Tools Window Help
Layers
Railroad_Markings
School_Markings
HighMast
MUTCD Catagory
School Bus Signs
Signal_Inventory_T Events
Signalized Intersections
LOGO Signs
Sign Structures and Meters
Epoxy08 Events
Davie
Epoxy08 Events
Epoxy08 Events
2007 Final Report Events
Rte_Lin
DivisionAll Final
State_Forces060908
Contractor060908
Planned08
Stokes07
DavidsonAll
Davie07Final
Forsyth07
RowanAll
Division9All
Planned Snowplowable Routes
Div9All
08markers Events
Whole_Division
2006
Planned Snowplowable Routes
dotcntybdry
dotroads
Layer Properties
General Source Selection Display Symbology Fields Definition Query Labels Joins & Relates
Show:
Features
Categories
Unique values
Unique values, many
Match to symbols in a
Quantities
Charts
Multiple Attributes
Draw categories using unique values of one field.
Import...
Value Field
COUNTY
Color Ramp
Symbol Value Label Count
<all other values> <all other values> 0
<Heading> COUNTY 396
Davidson Davidson 172
Davie Davie 13
Forsyth Forsyth 78
Rowan Rowan 100
Stokes Stokes 33
Add All Values
Add Values...
Remove
Remove All
Advanced
OK
Cancel
Apply
Railroad Markings Query by County
Display the properties of this layer
1308284.01 1019863.52 Feet
Start
Calendar - Microsof...
Untitled - ArcMap...
NCDOT Gateway - ...
Visual/MMS / 09 Tr...
School-Railroad Mar...
8:39 AM

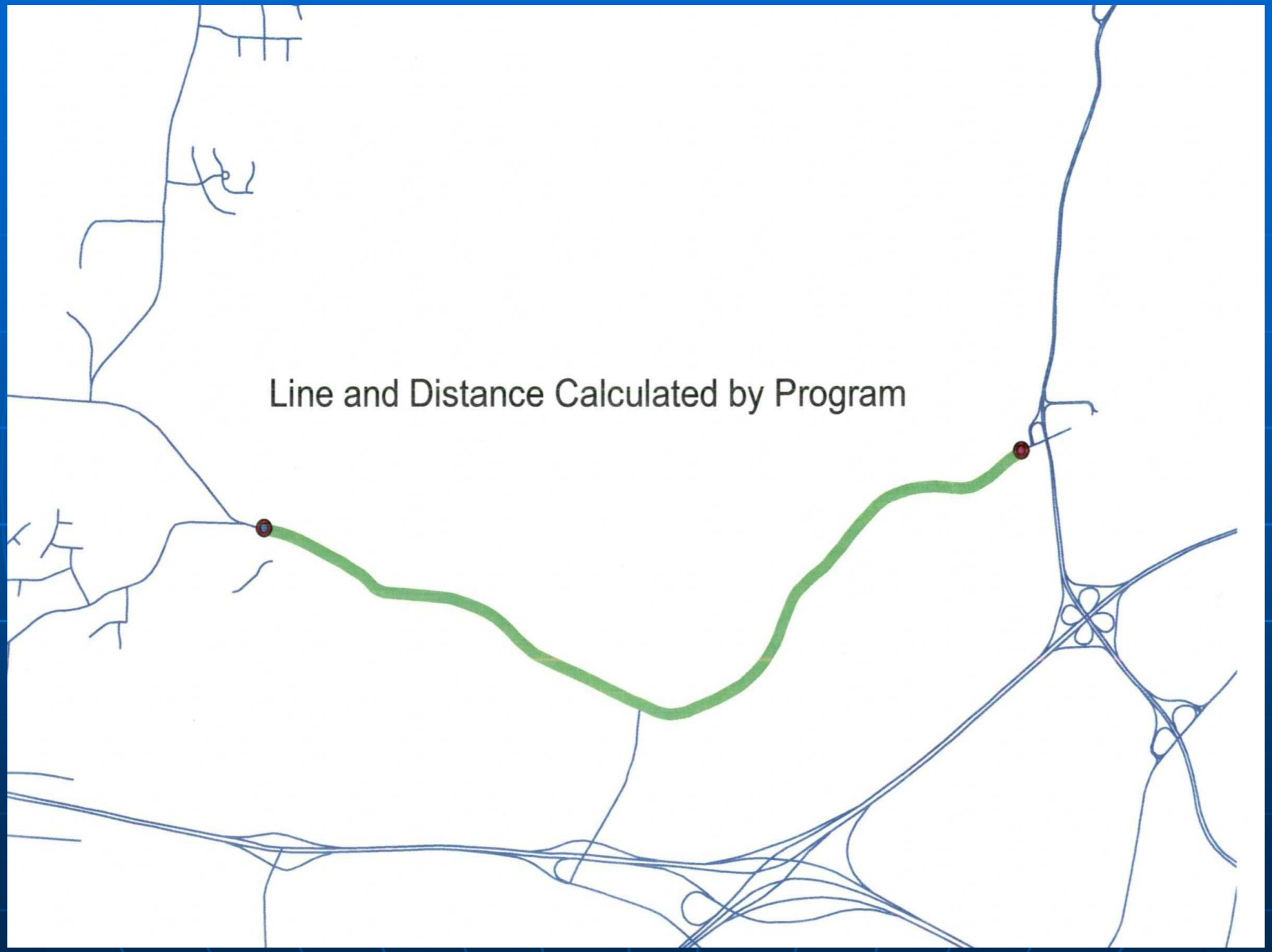


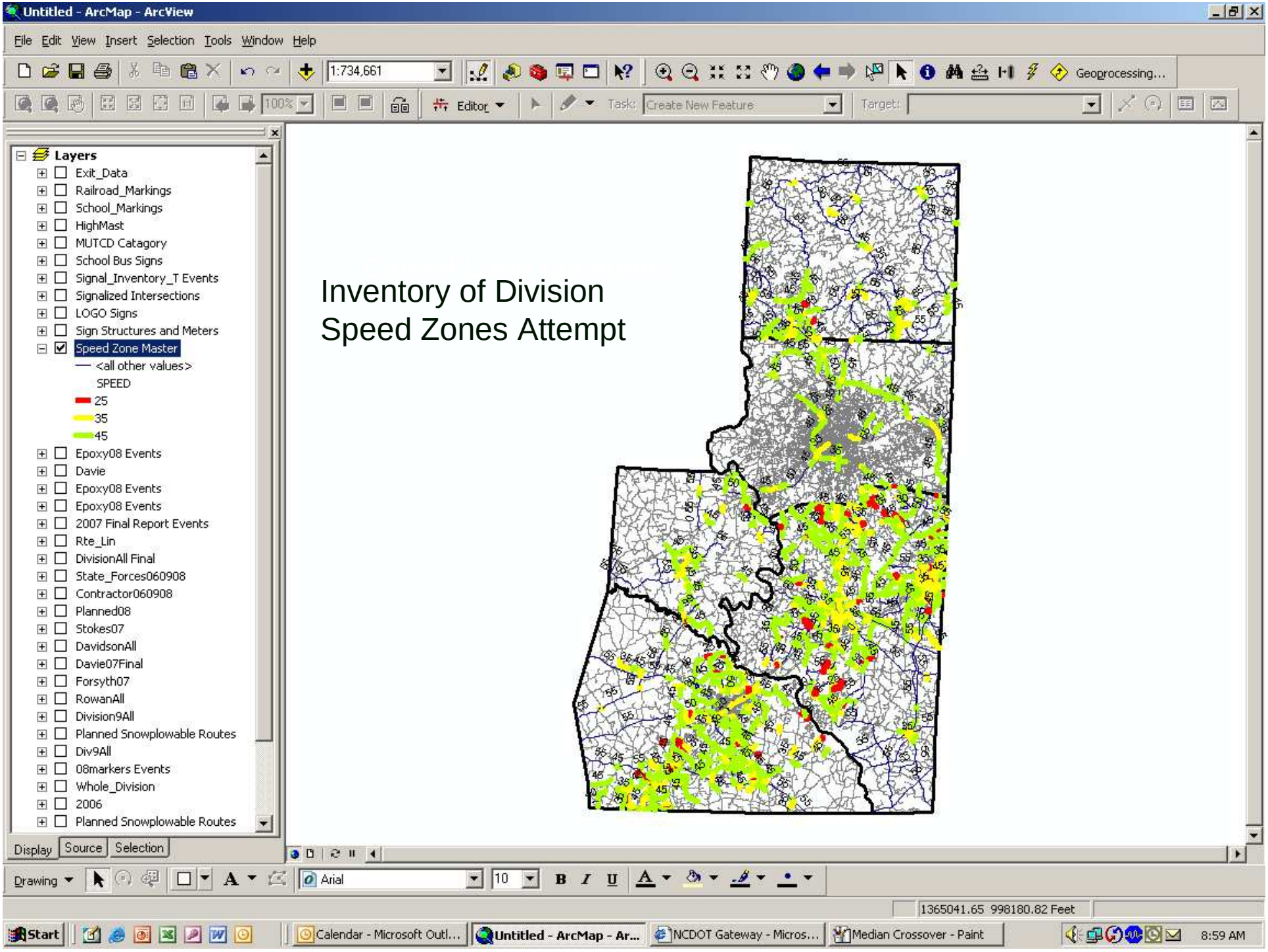
Query of Railroad Markings that are in “poor” condition

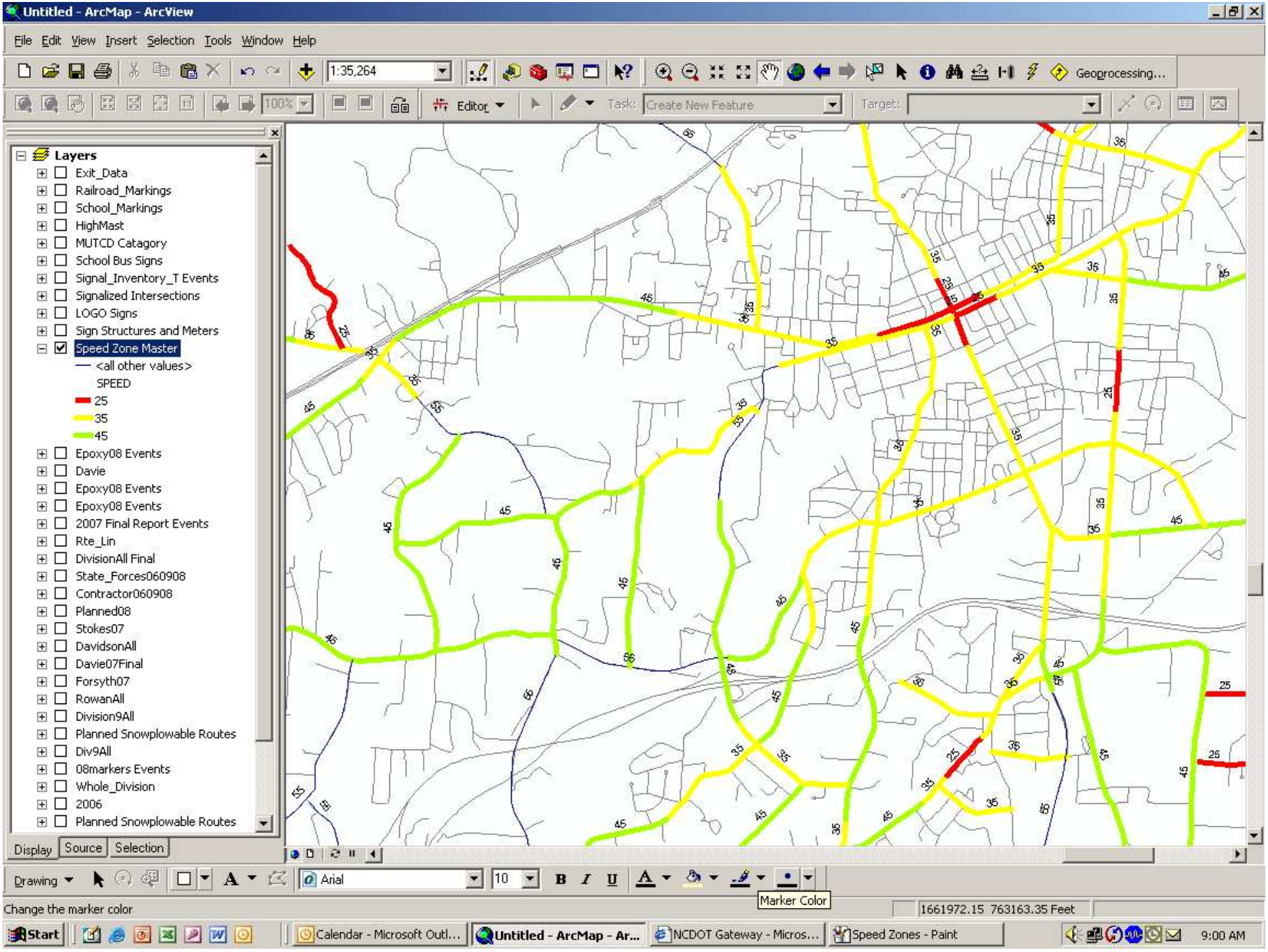

Untitled - ArcMap - ArcView
File Edit View Insert Selection Tools Window Help
1:109,252
Geoprocessing...
Editor
Task: Create New Feature
Target:
Layers
Railroad_Markings
School_Markings
HighMast
MUTCD Catagory
School Bus Signs
Signal_Inventory_T Events
Signalized Intersections
LOGO Signs
Sign Structures and Meters
Epoxy08 Events
Davie
Epoxy08 Events
Epoxy08 Events
2007 Final Report Events
Rte_Lin
DivisionAll Final
State_Forces060908
Contractor060908
Planned08
Stokes07
DavidsonAll
Davie07Final
Forsyth07
RowanAll
Division9All
Planned Snowplowable Routes
Div9All
08markers Events
Whole_Division
2006
Planned Snowplowable Routes
dotcntybdry
dotroads
Display Source Selection
Close-up of "Poor" Railroad Markings
Drawing
Arial
10
1616836.63 796235.43 Feet
Start
Calendar - Microsof...
Untitled - ArcMap...
NCDOT Gateway - ...
Visual/MMS / 09 Tr...
School-Railroad Mar...
8:41 AM

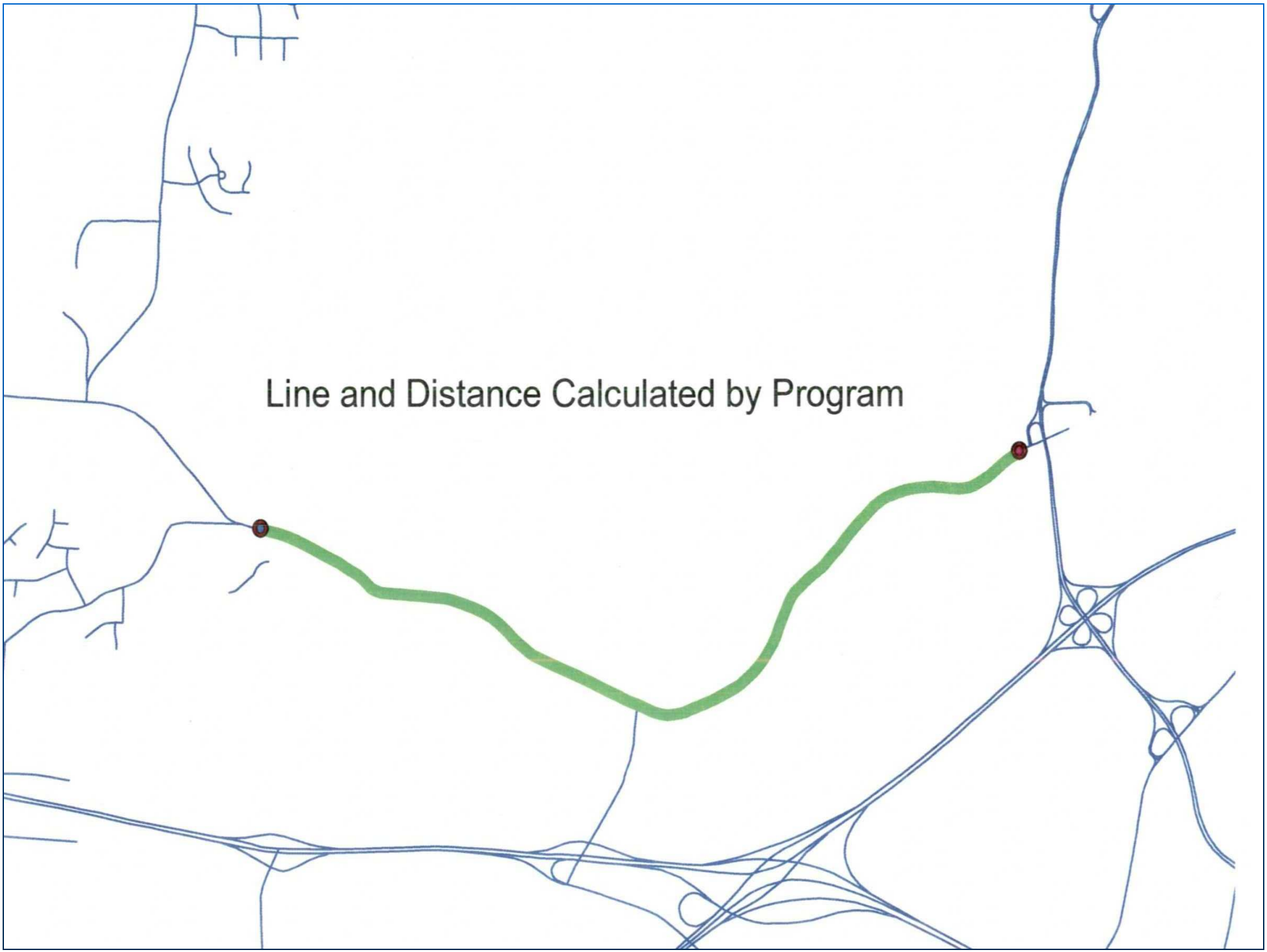
The Tale of Two Dots

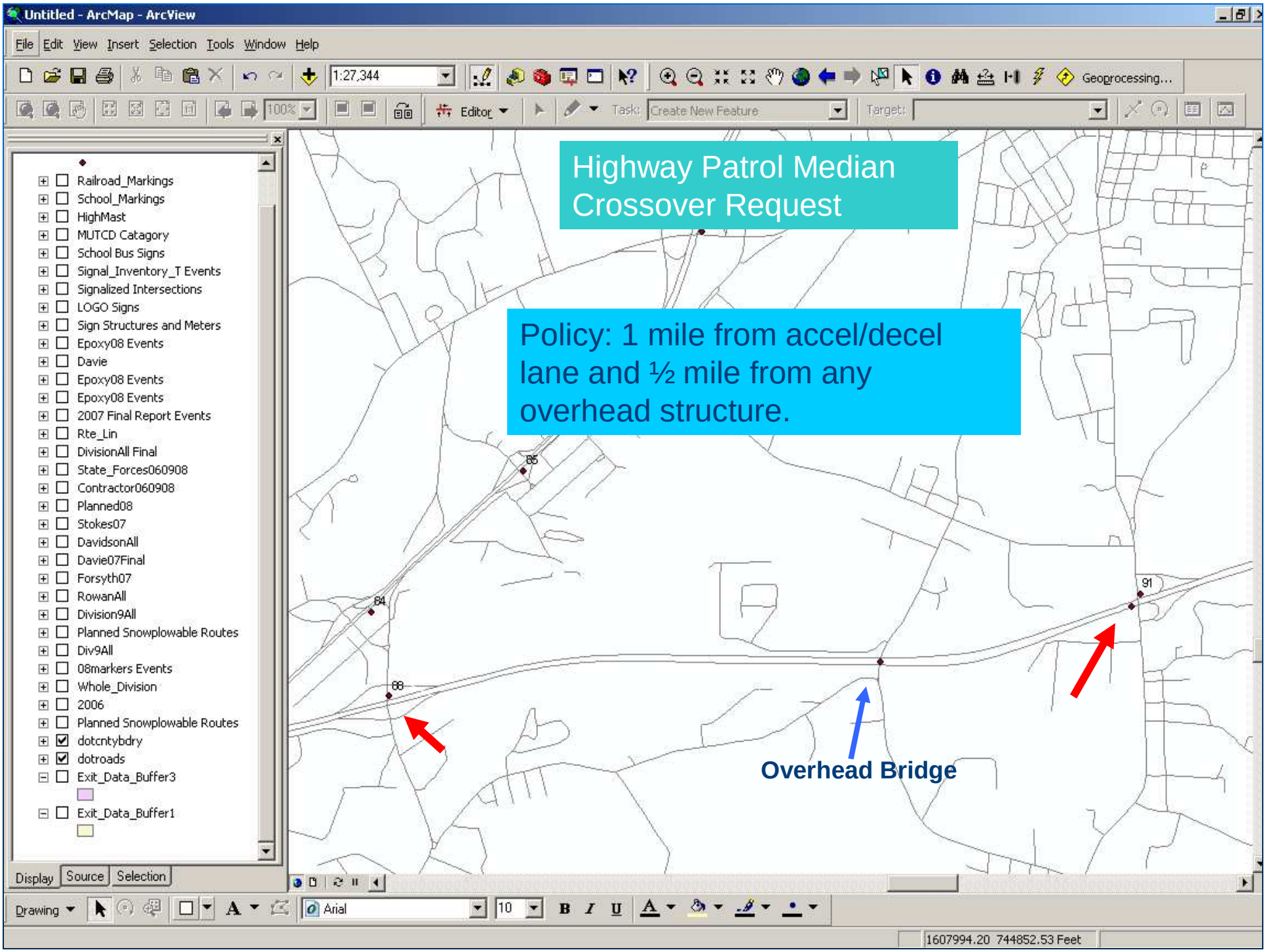


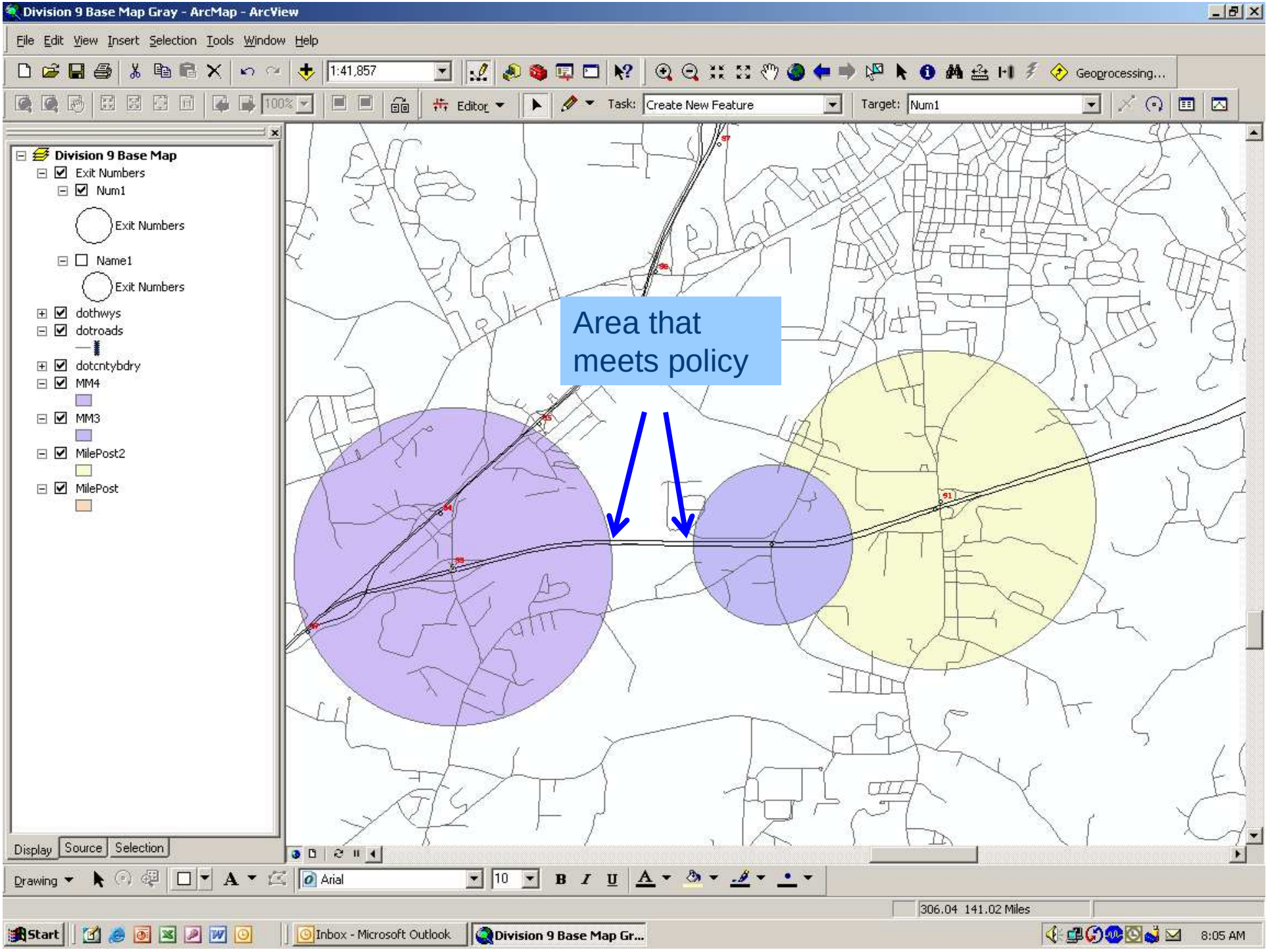

Line and Distance Calculated by Program

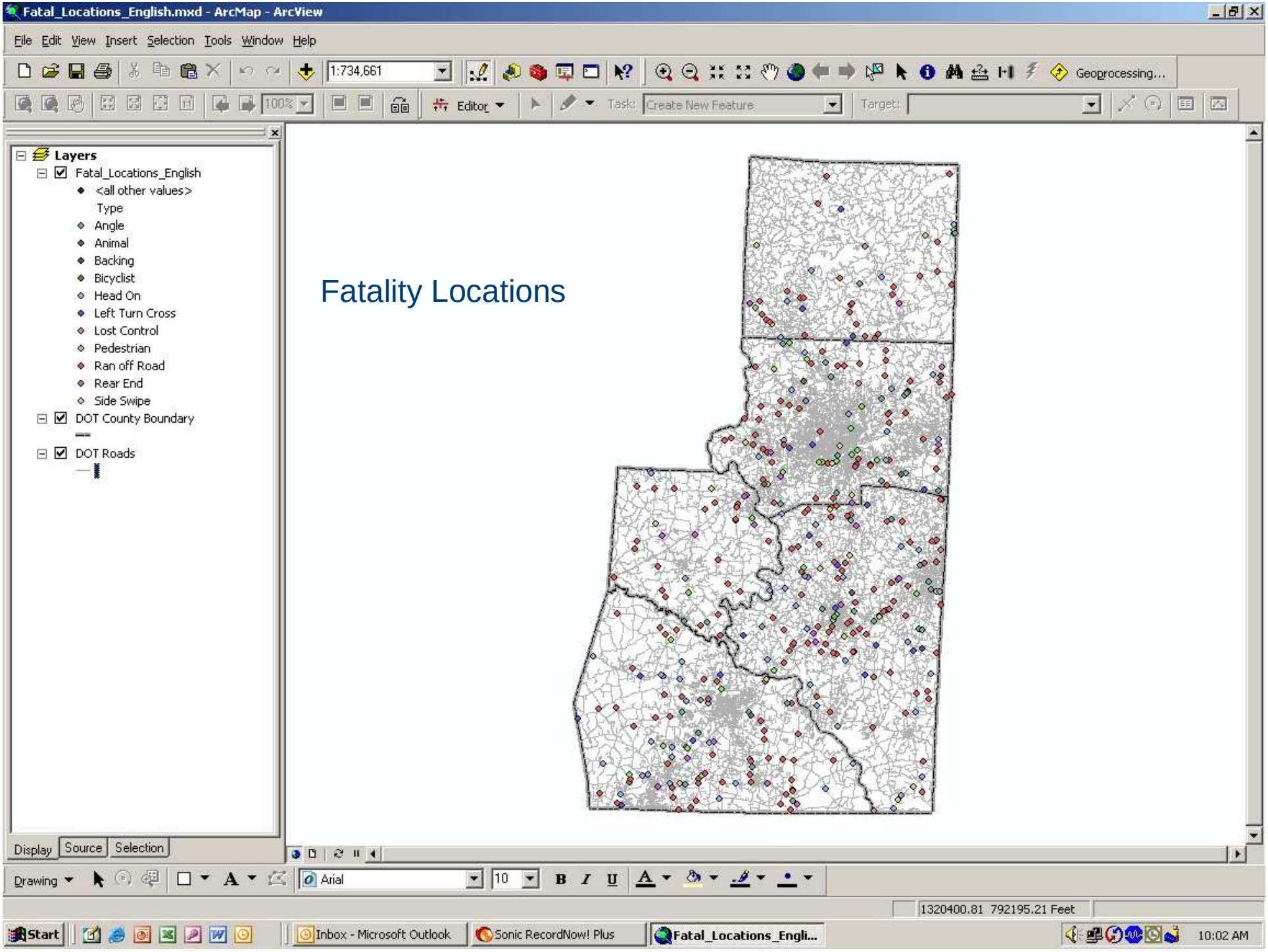

Untitled - ArcMap - ArcView
File Edit View Insert Selection Tools Window Help
1:734,661
Geoprocessing...
Editor
Task: Create New Feature
Target:
Layers
Exit_Data
Railroad_Markings
School_Markings
HighMast
MUTCD Catagory
School Bus Signs
Signal_Inventory_T Events
Signalized Intersections
LOGO Signs
Sign Structures and Meters
Speed Zone Master
<all other values>
SPEED
25
35
45
Epoxy08 Events
Davie
Epoxy08 Events
Epoxy08 Events
2007 Final Report Events
Rte_Lin
DivisionAll Final
State_Forces060908
Contractor060908
Planned08
Stokes07
DavidsonAll
Davie07Final
Forsyth07
RowanAll
Division9All
Planned Snowplowable Routes
Div9All
08markers Events
Whole_Division
2006
Planned Snowplowable Routes
Display
Source
Selection
Inventory of Division
Speed Zones Attempt
Drawing
Arial
10
1365041.65 998180.82 Feet
Start
Calendar - Microsoft Outl...
Untitled - ArcMap - Ar...
NCDOT Gateway - Micros...
Median Crossover - Paint
8:59 AM

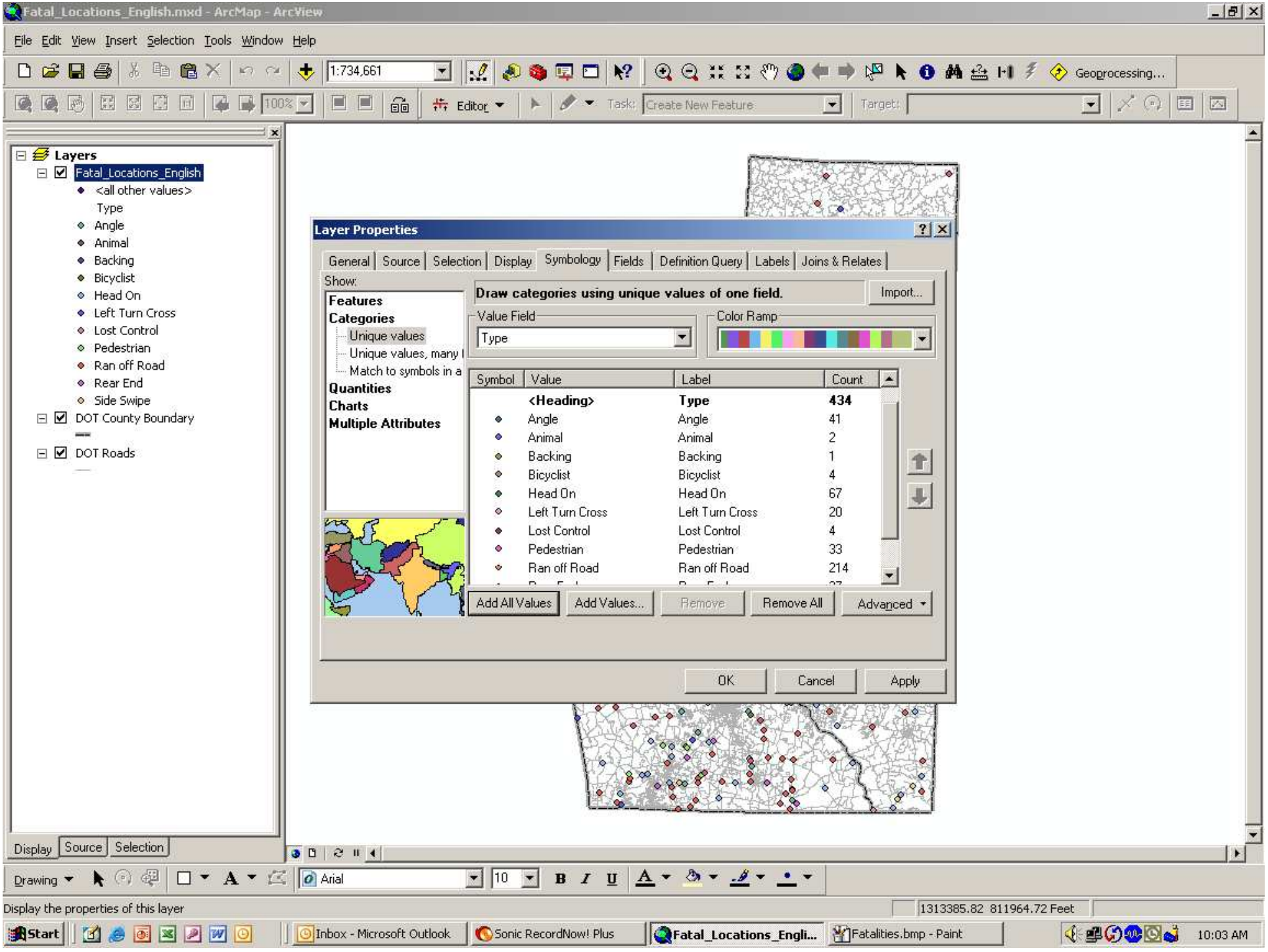

Untitled - ArcMap - ArcView
File Edit View Insert Selection Tools Window Help
1:35,264
Geoprocessing...
Editor
Task: Create New Feature
Target:
Layers
Exit_Data
Railroad_Markings
School_Markings
HighMast
MUTCD Catagory
School Bus Signs
Signal_Inventory_T Events
Signalized Intersections
LOGO Signs
Sign Structures and Meters
Speed Zone Master
<all other values>
SPEED
25
35
45
Epoxy08 Events
Davie
Epoxy08 Events
Epoxy08 Events
2007 Final Report Events
Rte_Lin
DivisionAll Final
State_Forces060908
Contractor060908
Planned08
Stokes07
DavidsonAll
Davie07Final
Forsyth07
RowanAll
Division9All
Planned Snowplowable Routes
Div9All
08markers Events
Whole_Division
2006
Planned Snowplowable Routes
Display Source Selection
Drawing
Arial
10
Marker Color
Change the marker color
1661972.15 763163.35 Feet
Start
Calendar - Microsoft Outl...
Untitled - ArcMap - Ar...
NCDOT Gateway - Micros...
Speed Zones - Paint
9:00 AM

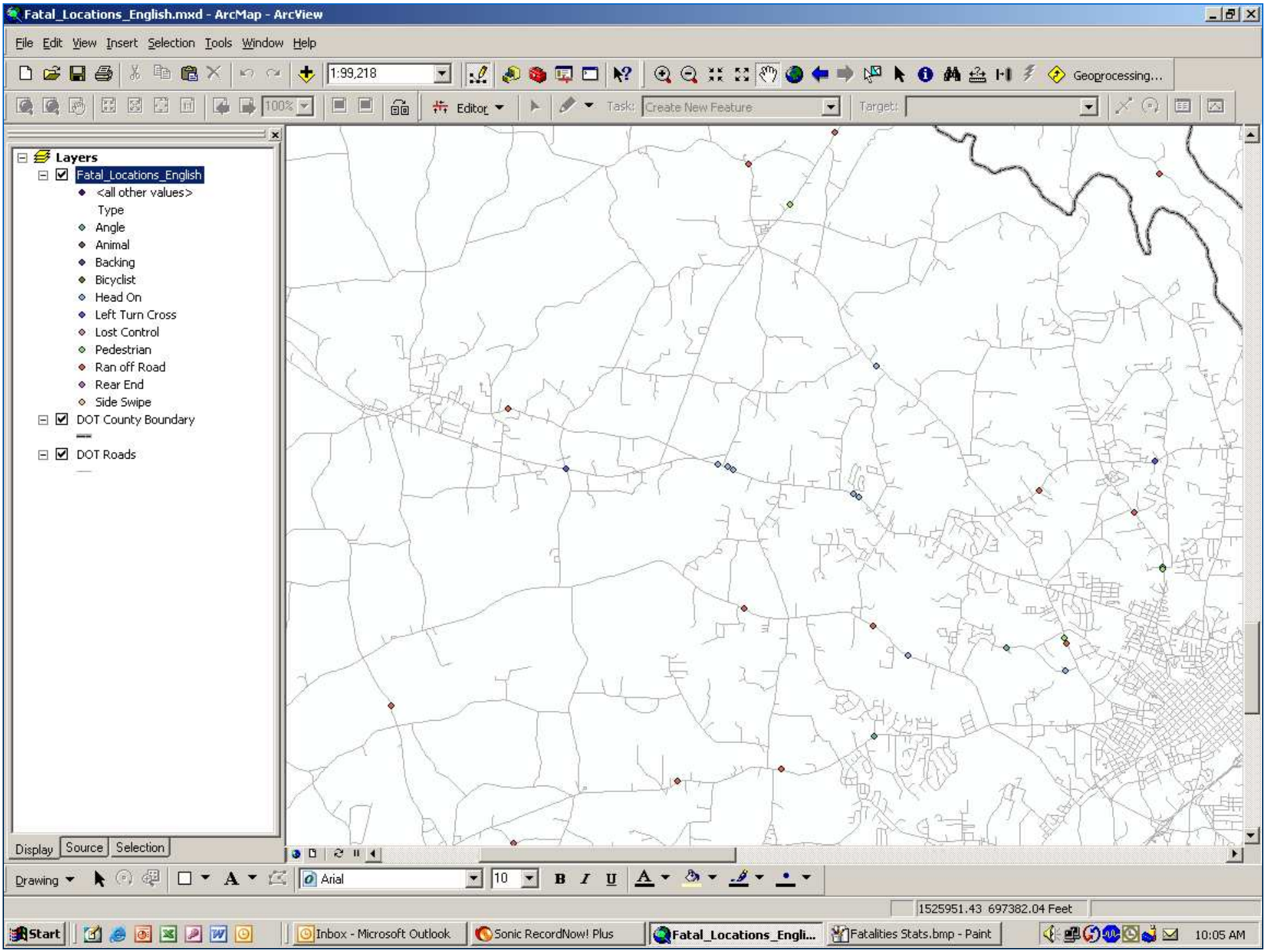

Line and Distance Calculated by Program

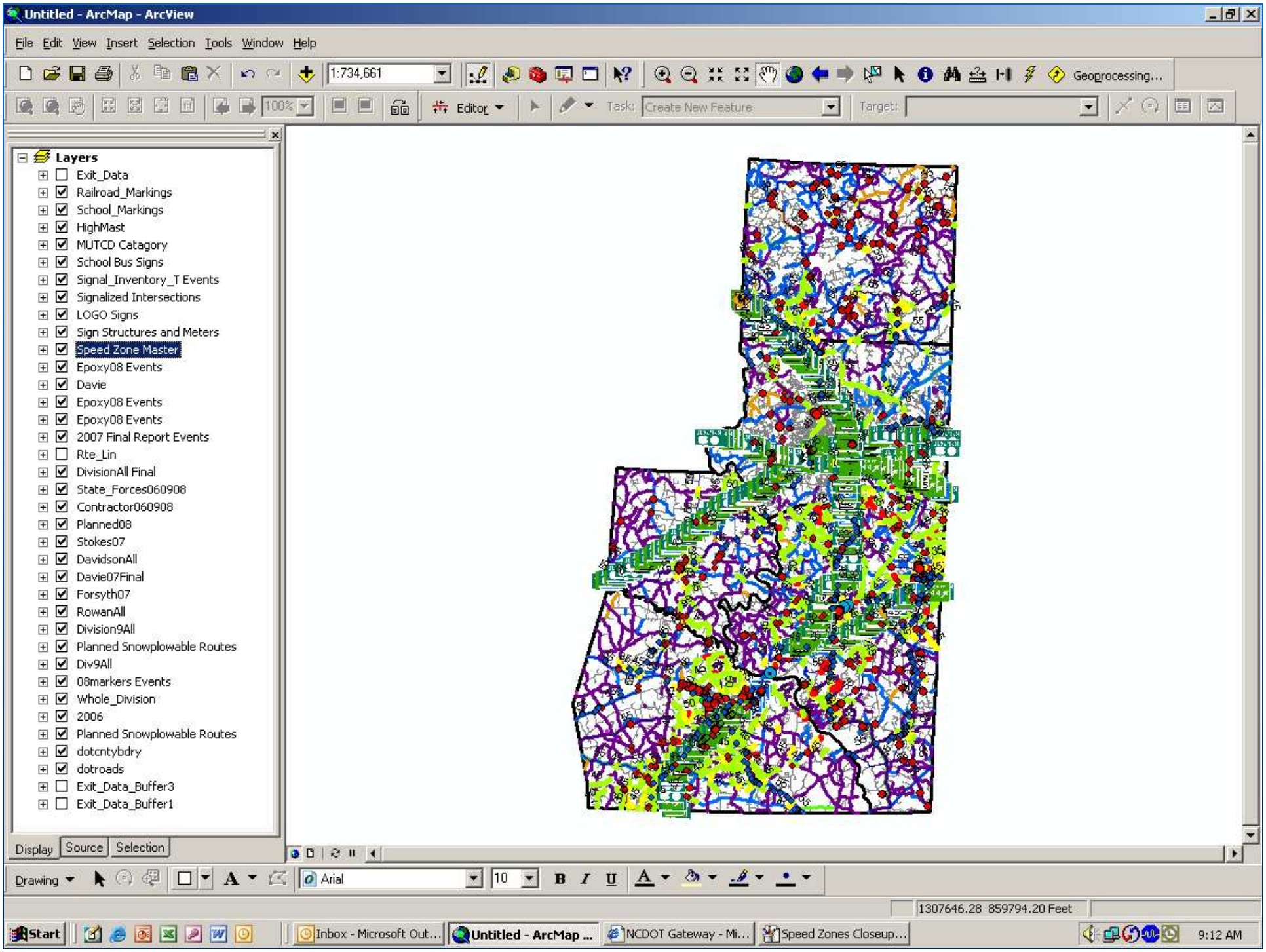

Untitled - ArcMap - ArcView
File Edit View Insert Selection Tools Window Help
1:27,344
Geoprocessing...
Editor
Task: Create New Feature
Target:
Railroad_Markings
School_Markings
HighMast
MUTCD Catagory
School Bus Signs
Signal_Inventory_T Events
Signalized Intersections
LOGO Signs
Sign Structures and Meters
Epoxy08 Events
Davie
Epoxy08 Events
Epoxy08 Events
2007 Final Report Events
Rte_Lin
DivisionAll Final
State_Forces060908
Contractor060908
Planned08
Stokes07
DavidsonAll
Davie07Final
Forsyth07
RowanAll
Division9All
Planned Snowplowable Routes
Div9All
08markers Events
Whole_Division
2006
Planned Snowplowable Routes
dotcntybdry
dotroads
Exit_Data_Buffer3
Exit_Data_Buffer1
Display Source Selection
Drawing
Arial
10
1607994.20 744852.53 Feet
Highway Patrol Median Crossover Request
Policy: 1 mile from accel/decel lane and ½ mile from any overhead structure.
85
84
88
91
Overhead Bridge


Division 9 Base Map Gray - ArcMap - ArcView
File Edit View Insert Selection Tools Window Help
1:41,857
Geoprocessing...
Editor
Task: Create New Feature
Target: Num1
Division 9 Base Map
Exit Numbers
Num1
Exit Numbers
Name1
Exit Numbers
dothwys
dotroads
dotcntybdry
MM4
MM3
MilePost2
MilePost
Area that meets policy
Display Source Selection
Drawing
Arial
10
306.04 141.02 Miles
Start
Inbox - Microsoft Outlook
Division 9 Base Map Gr...
8:05 AM


Fatal_Locations_English.mxd - ArcMap - ArcView
File Edit View Insert Selection Tools Window Help
1:734,661
Geoprocessing...
Editor
Task: Create New Feature
Target:
Layers
Fatal_Locations_English
<all other values>
Type
Angle
Animal
Backing
Bicyclist
Head On
Left Turn Cross
Lost Control
Pedestrian
Ran off Road
Rear End
Side Swipe
DOT County Boundary
DOT Roads
Display Source Selection
Fatality Locations
Drawing
Arial
10
1320400.81 792195.21 Feet
Start
Inbox - Microsoft Outlook
Sonic RecordNow! Plus
Fatal_Locations_Engli...
10:02 AM


Fatal_Locations_English.mxd - ArcMap - ArcView
File Edit View Insert Selection Tools Window Help
1:734,661
Geoprocessing...
Editor
Task: Create New Feature
Target:
Layers
Fatal_Locations_English
<all other values>
Type
Angle
Animal
Backing
Bicyclist
Head On
Left Turn Cross
Lost Control
Pedestrian
Ran off Road
Rear End
Side Swipe
DOT County Boundary
DOT Roads
Display Source Selection
Layer Properties
General Source Selection Display Symbology Fields Definition Query Labels Joins & Relates
Show:
Features
Categories
Unique values
Unique values, many
Match to symbols in a
Quantities
Charts
Multiple Attributes
Draw categories using unique values of one field.
Import...
Value Field
Type
Color Ramp
Symbol Value Label Count
<Heading> Type 434
Angle Angle 41
Animal Animal 2
Backing Backing 1
Bicyclist Bicyclist 4
Head On Head On 67
Left Turn Cross Left Turn Cross 20
Lost Control Lost Control 4
Pedestrian Pedestrian 33
Ran off Road Ran off Road 214
Add All Values
Add Values...
Remove
Remove All
Advanced
OK
Cancel
Apply
Drawing
Arial
10
Display the properties of this layer
1313385.82 811964.72 Feet
Start
Inbox - Microsoft Outlook
Sonic RecordNow! Plus
Fatal_Locations_Engli...
Fatalities.bmp - Paint
10:03 AM


Fatal_Locations_English.mxd - ArcMap - ArcView
File Edit View Insert Selection Tools Window Help
1:99,218
Geoprocessing...
Editor
Task: Create New Feature
Target:
Layers
Fatal_Locations_English
<all other values>
Type
Angle
Animal
Backing
Bicyclist
Head On
Left Turn Cross
Lost Control
Pedestrian
Ran off Road
Rear End
Side Swipe
DOT County Boundary
DOT Roads
Display
Source
Selection
Drawing
Arial
10
1525951.43 697382.04 Feet
Start
Inbox - Microsoft Outlook
Sonic RecordNow! Plus
Fatal_Locations_Engli...
Fatalities Stats.bmp - Paint
10:05 AM


Untitled - ArcMap - ArcView
File Edit View Insert Selection Tools Window Help
1:734,661
Geoprocessing...
Editor
Task: Create New Feature
Target:
Layers
Exit_Data
Railroad_Markings
School_Markings
HighMast
MUTCD Catagory
School Bus Signs
Signal_Inventory_T Events
Signalized Intersections
LOGO Signs
Sign Structures and Meters
Speed Zone Master
Epoxy08 Events
Davie
Epoxy08 Events
Epoxy08 Events
2007 Final Report Events
Rte_Lin
DivisionAll Final
State_Forces060908
Contractor060908
Planned08
Stokes07
DavidsonAll
Davie07Final
Forsyth07
RowanAll
Division9All
Planned Snowplowable Routes
Div9All
08markers Events
Whole_Division
2006
Planned Snowplowable Routes
dotcntybdry
dotroads
Exit_Data_Buffer3
Exit_Data_Buffer1
Display Source Selection
Drawing
Arial
10
1307646.28 859794.20 Feet
Start
Inbox - Microsoft Out...
Untitled - ArcMap ...
NCDOT Gateway - Mi...
Speed Zones Closeup...
9:12 AM

Data Collection and Management

- Trimble GEO XT using Arcpad 7.1 ($4,500)
- Primarily use Summer Interns for bulk of inventory.
- Division Staff maintains current inventories.
- Recommend attending training classes conducted by NCDOT and ITRE.
- Computer needs must be addressed as to where the data is stored and who has access.
- Standardizing the format of the data so it can be incorporated into all units of NCDOT.